

Volume

#

R0326

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Meanders Page

Winn - Colorado Boundary

PRELIMINARY OATHS OF ASSISTANTS.

WE.....

and.....

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

, Chainma

, Chainma

Subscribed and sworn to before me this }
day of, 190 }
 |



WE..... and.....

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Moundma

, Moundma

Subscribed and sworn to before me this }
day of, 190 }
 |



WE..... and.....

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axma

, Axma

Subscribed and sworn to before me this }
day of, 190 }
 |



I..... do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman

Subscribed and sworn to before me this }
day of, 190 }
 |



BOOK A-326

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

We and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

, Chainma

, Chainma

Subscribed and sworn to before me this }
day of , 190 }


We and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Moundma

, Moundma

Subscribed and sworn to before me this }
day of , 190 }


We, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axma

, Axma

Subscribed and sworn to before me this }
day of , 190 }


I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagma

Subscribed and sworn to before me this }
day of , 190 }


INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

We, _____, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon the ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in setting, according to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman.

, Chainman.

September 1 and sworn to before me this _____, 190_____
day of _____, 190_____
V



We, _____, do solemnly swear that we will well and truly perform the duties of moundmen in the establishment

of corners, according to the instructions given us, to the best of our skill and ability, in the survey o

, Moundman.

, Moundman.

September 1 and sworn to before me this _____, 190_____
day of _____, 190_____
V



We, _____, do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners

and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

September 1 and sworn to before me this _____, 190_____
day of _____, 190_____
V



I, _____, do solemnly swear that I will well and truly
execute the duties of flagman, according to instructions given me, to the best of my skill and ability, in the

, Flagman.

September 1 and sworn to before me this _____, 190_____
day of _____, 190_____
V



INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

We, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that
we will report the true distances to all notable objects, and the true lengths of all lines that we assist in
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



We, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment
of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



We, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners
and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



I, _____, do solemnly swear that I will well and truly
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the
survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



BOOK A-326

FILED

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OCT 22 1904

W.H.D.

FIELD NOTES

OF THE SURVEY OF THE

G-U-I-D-E M-E-R-I-D-I-A-N

through

Township No. 11 South,

between

Ranges No. 24 and 25 East.

of the Salt Lake Base and Meridian,
 in the state of Utah.

AS SURVEYED BY

LFRDO R.TALAMANTES and HARVEY D.HEIST, United States Deputy Surveyor,

Under their Contract No.285, dated April 12, 1904., 189

Survey commenced August 27, 1904., 189

Survey completed August 28, 1904., 189

6-151

High - 6.00-00

Low 71.99-00

NAMES AND DUTIES OF ASSISTANTS.

Julius H White	Chairman
Egbert White	"
Roy S Moore	"
James B Austin	"
Howard M Hodges	Moundman
William Pearson	Ax man
William L White	Flagman

BOOK A-326

INDEX DIAGRAM.

Township....., Range.....

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Julius H. White, Egbert White, and Roy J. Moore, James B. Austin, do solemnly swear that we will well and faithfully execute the duties of chainmen, that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Guide Meridian through Tp. 11 S., R.R. 24 & 25 E. of the Dakk Lake Base & Meridian, State of Minnesota. Julius H. White, Chainman. Egbert White, Chainman.

Subscribed and sworn to before me this 27
day of August 1904.



E. T. Garber

Notary Public

WE, Howard M. Haugr, do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of Guide Meridian through Tp. 11 S. Between R.R. 24 & 25 E. of the Dakk Lake Base & Meridian, State of Minnesota. Howard M. Haugr, Moundman. Howard M. Haugr, Moundman.

Subscribed and sworn to before me this 27
day of August 1904.



E. T. Garber

Notary Public

WE, William Pearson, do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of Guide Meridian through Tp. 11 S. Between R.R. 24 & 25 E. of the Dakk Lake Base & Meridian, State of Minnesota. William Pearson, Axman. William Pearson, Axman.

Subscribed and sworn to before me this 27
day of August 1904.



E. T. Garber

Notary Public

I, William L. White, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Guide Meridian through Tp. 11 S. Between R.R. 24 & 25 E. of the Dakk Lake Base & Meridian, State of Minnesota. William L. White, Flagman.

Subscribed and sworn to before me this 27
day of August 1904.



E. T. Garber

Notary Public

GUIDE MERIDIAN, THROUGH T.11 S.

CHAINS

Survey commenced August 27, 1904, and executed with the instrument described in book "N" of this survey.
At the standard cor. of Tp. 10 S., Rs. 24 and 25 E., heretofore described, approximate latitude $39^{\circ}53'53''$ N., longitude $109^{\circ}18'15''$ W.: I set off $39^{\circ}54'$ N. on the lat.arc; $19^{\circ}52''$ N. on the decl.arc; and at 4h p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the standard cor.
At 9h 06m p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

August 27, 1904.

August 28: At 6h a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ}34'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone, set last night, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 7h a.m., l.m.t., I set off $39^{\circ}54'$ N. on the lat.arc; $9^{\circ}47'$ N. on the decl.arc; and mark a point in the meridian determined with the solar, by a cross on the stone, already set 5 chs. N. of my station: this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about $0'16''$ west and $0'11''$ east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 7h 30m a.m., is $N.15^{\circ}50'W.$; the angle thus determined gives the mag.decl. $15^{\circ}50'E.$

From the standard Tp.cor., heretofore described, I run

GUIDE MERIDIAN THROUGH T.11 S.

	CHAINS	west along the standard line a distance of 71.99 chs., which is the proper amount of convergence at this point, I set a sandstone, 24x12x12 ins., 18 ins. in the ground, for closing cor. to T.11 S., Rs. 24 and 25 E., marked C C 11 S on S., 25 E on E., and 24 E on W.; with 6 grooves on S.E. and W. faces; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.
		Thence I run South on a true line, bet. secs. 1 and 6. Descend over rocky land through dense artemisia.
3.00		Bottom of hollow, 75 ft. deep, course NE. Begin abrupt ascent.
8.00		Top of spur projects NW. Descend.
15.00		Bottom of hollow, 75 ft. deep, course NW. Ascend.
22.00		Top of ridge bears NE. and SW. Descend.
25.00		Bottom of hollow, 100 ft. deep, course E. Ascend.
39.00		Top of ridge bears NE. and SW. Descend.
		Difference bet. measurements of 40.00 chs. by two sets of chainmen is 4 lks.: position of middle point By 1st set, 40.02 chs., By 2nd set, 39.98 chs., the mean of which is
40.00		Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
45.00		Bottom of hollow, 200 ft. deep, course NE. Ascend.
60.00		Top of spur projects NE.

GUIDE MERIDIAN THROUGH T.11 S.

CHAINS	
	Descend,
71.00	Bottom of hollow, 200 ft. deep, course NE. Ascend abruptly.
78.00	Top of spur projects NE. Descend. Difference bet. measurements of 80.00 chs. by two sets of chainmen is 8 lks.; position of middle point By 1st set, 80.04 chs., By 2nd set, 79.96 chs., the mean of which is
80.00	Set a sandstone, 16x8x5 ins., 11 ins. in the ground, for core of secs. 1-6-7 and 12, marked with 1 notch on the N. and 5 notches on the S. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil: rocky, 3rd rate. No timber. Mountainous land and dense undergrowth on 80.00 chs.
	South, bet. secs. 7 and 12.
	Descend over rocky land through dense artemisia.
3.00	Bottom of hollow, 250 ft. deep, course NE. Ascend.
18.00	Top of ridge bears NE. and SW. Descend.
24.00	Bottom of hollow, 175 ft. deep, course NE. Ascend.
30.00	Top of spur projects NE. Descend. Difference bet. measurements of 40.00 chs. by two sets of chainmen is 6 lks.; position of middle point By 1st set, 40.03 chs., By 2nd set, 39.97 chs., the mean of which is
40.00	Set a sandstone, 16x12x4 ins., 11 ins. in the ground, for

GUIDE MERIDIAN THROUGH T.11 S.

CHAINS	$\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor. Pits impracticable.
42.00	Bottom of hollow, 50 ft. deep, course NE. Ascend.
52.00	Top of spur projects NE. Descend.
62.00	Bottom of hollow, 250 ft. deep, course NE. Ascend. to top of spur.
80	Difference bet.measurements of 80.00 chs., by two sets of chainmen is 8 lks.; position of middle point By 1st set, 80.04 chs., By 2nd set, 79.96 chs., the mean of which is
80.00	Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for cor.of secs. 7-12-13 and 18, marked with 4 notches on the S.and 2 notches on the N.edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor. Pits impracticable. Land, mountainous. Soil; rocky, 3rd rate. No timber. Mountainous land and dense undergrowth on 80.00 chs.
<hr/>	
	South, betsecs. 13 and 18. Descend from top of spur, projecting NE, over rocky land through dense artemisia.
10.00	Bottom of hollow, 100 ft. deep, course NE. Ascend.
18.00	Top of ridge bears NE. and SW. Descend.
24.00	Bottom of hollow, 150 ft. deep, course NE. Ascend.
36.00	Top of ridge bears NE. and SW. Descend.

GUIDE MERIDIAN THROUGH T. 11 S.

CHAINS	Difference bet. measurements of 40.00 chs., by two sets of chainmen is 8 lks.; position of middle point. By 1st set, 40.04 chs., By 2nd set, 39.96 chs., the mean of which is
40.00	Set a sandstone, 16x8x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable..
48.00	Bottom of hollow, 175 ft. deep, course NE. Ascend.
58.00	Top of ridge bears NE. and SW. Descend.
72.00	Bottom of hollow, 200 ft. deep, course NE. Ascend. Difference bet. measurements of 80.00 chs., by two sets of chainmen is 10 lks.; position of middle point
	By 1st set, 80.05 chs., By 2nd set 79.95 chs., the mean of which is
80.00	Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for cor. of secs. 13-18-19 and 24, marked with 3 notches on the N. and S. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil: rocky, 3rd rae.. No timber. Mountainous land and dense undergrowth on 80.00 chs. August 28: At this cor., I set off $9^{\circ}41'N.$ on the decl. arc; and at 0h 01m p.m., 1.m.t., observe the sun on the meridian; the resulting lat. is $39^{\circ}51'N.$
	----- South, bet. secs. 19 and 24.
10.00	Ascend over rocky land through dense artemisia. Top of ridge bears E. and W.

GUIDE MERIDIAN THROUGH T.11 S.

CHAINS	
	Descend.
16.00	Bottom of hollow, 50 ft. deep, course NE. Ascend.
36.00	Top of ridge bears NE. and SW. Descend. Difference bet. measurements of 40.00 chs., by two sets of chainmen is 10 lks.; position of middle point By 1st set, 40.05 chs., By 2nd set, 39.95 chs., the mean of which is
40.00	Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
50.00	Bottom of hollow, 100 ft. deep, course NE. Ascend.
59.50	Top of spur projects NE. Descend. Difference bet. measurements of 80.00 chs., by two sets of chainmen is 12 lks.; position of middle point By 1st set, 80.06 chs., By 2nd set, 79.94 chs., the mean of which is
80.00	Set a sandstone, 16x10x8 ins., 11 ins. in the ground, for cor. of secs. 19-24-25 and 30, marked with 2 notches on the S. and 4 notches on the N. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil: rocky, 3rd rate. No timber. Mountainous land and dense undergrowth on 80.00 chs.

GUIDE MERIDIAN THROUGH T.11 S.

CHAINS

	South, bet. secs. 25 and 30.
	Descend over rocky land through scattering cedar and pinon timber.
2.00	Bottom of hollow, 50 ft. deep, course NE.
	Ascend.
5.00	Top of spur projects NE.
	Descend.
9.00	Bottom of hollow, 150 ft. deep, course NE.
	Ascend.
18.00	Top of spur projects NE.
	Descend.
22.00	Bottom of hollow, 150 ft. deep, course NE.
	Ascend.
25.00	Wagon road bears NE. and S.
35.00	Leave wagon road, bearing N. and SW.
38.57	A gilsonite vein, 4 ft. wide, on the Rainbow Lode, bears NW. and SE.
	Difference bet. measurements of 40.00 chs., by two sets of chainmen is 14 lks.; position of middle point By 1st set, 40.07 chs., By 2nd set, 39.93 chs., the mean of which is
40.00	Set a sand stone, 14x12x5 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A pinon, 10 ins. diam., bears S. 83° E., 52 lks. dist., marked $\frac{1}{4}$ S 30 B T. A pinon, 8 ins. diam., bears N. $89^{\circ}45'W.$, 68 lks. dist., marked $\frac{1}{4}$ S 25 B T.
43.50	Top of spur projects SE.
	Descend.
59.00	Wagon road, bearing NE. and SW., in bottom of hollow, 300 ft. deep, course NE.
	Ascend.
	Difference bet. measurements of 80.00 chs., by two sets of chainmen is 16 lks; position of middle point By 1st set, 80.08 chs.,

GUIDE MERIDIAN THROUGH T. 11 S.

CHAINS

- By 2nd set, 79.92 chs., the mean of which is
 80.00 Set a sandstone, 16x12x4 ins., 11 ins. in the ground, for
 cor. of secs. 25-30-31 and 36, marked with 1 notch on the
 S. and 5 notches on the N. edge; from which
 A pinon, 10 ins. diam., bears N. $30^{\circ}30' E.$, 62 lks. dist.,
 marked T 11 S R 25 E S 30 B T.
 A pinon, 10 ins. diam., bears S. $55^{\circ}30' E.$, 75 lks. dist.,
 marked T 11 S R 25 E S 31 B T.
 A pinon, 12 ins. diam., bears S. $55^{\circ}W.$, 28 lks. dist.,
 marked T 11 S R 24 E S 36 B T.
 A pinon, 10 ins. diam., bears N. $50^{\circ}W.$, 49 lks. dist.,
 marked T 11 S R 24 E S 25 B T.
 Land, mountainous.
 Soil: rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 80.00 chs.

South, bet. secs. 31 and 36.

Ascend over rocky land through scattering cedar and
 pinon timber.

- 2.00 Top of ridge bears NW. and SE.
 Descend.
 5.00 Wagon road bears NW. and SE.
 21.00 Bottom of hollow, 100 ft. deep, course W.
 Ascend.
 28.00 Top of spur projects W.
 Descend.
 35.00 Bottom of hollow, 100 ft. deep, course NW.
 Ascend.
 Difference bet. measurements of 40.00 chs., by two sets
 of chainmen is 18 lks.; position of middle point
 By 1st set, 40.09 chs.,
 By 2nd set, 39.91 chs., the mean of which is

GUIDE MERIDIAN THROUGH T.11 S.

CHAINS

40.00 Set a sandstone, 16x9x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

58.00 At junction of ridge and spur; ridge, bears NE. and SE.; spur projects NW.

Descnd.

Difference bet. measurements of 80.00 chs., by two sets of chainmen is 20 lks.: position of middle point

By 1st set, 80.10 chs.,

By 2nd set, 79.90 chs., the mean of which is

80.00 Set a sandstone, 18x12x6 ins., 12 ins. in the ground, for cor. of Tps. 11 and 12 S., Rs. 24 and 25 E., marked

11 S on NE.,

25 E on SE.,

12 S on SW., and

24 E on NW. face; with 6 notches on each edge;

from which

A pinon, 14 ins. diam., bears S. 34° E., 1.80 chs. dist., marked T 12 S R 25 E S 6 B T:

A pinon, 14 ins. diam., bears S. 3° W., 98 lks. dist., marked T 12 S R 24 E S 1 B T.

No other tress within limits; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.

Pits impracticable.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

August 28, 1904.

For general description, see subdivisions of T.11 S., R. 25 E.

Alfredo R. Palomarito

US. DEPUTY Surveyor.

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by

United States Deputy Surveyor, to assist in running, measuring, and

marking the lines and corners described in the foregoing field notes of the survey of

Guide Meridian through T 11 S, sec. R 24 & 25 E
of the Salt Lake Base and Meridian, Utah,
showing the respective capacities in which they acted:

Julius H. White Roy A. Moore, Chainman.

Cogbert White James B. Austin, Chainman.

Howard M. Hodge, Moundman.

William Pearson, Axman.

William L. White, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

Alfredo R. Palamantes,

United States Deputy Surveyor, in surveying all
those parts or portions of the

Guide Meridian through

T 11 S, sec. R 24 & 25 E

of the Salt
Lake Base and meridian, in the state of Utah, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for Utah.

Ray E. Foy Julius H. White, Chainman.
James W. Austin Cogbert White, Chainman.
Howard M. Hodge, Moundman.

William Pearson, Axman.

William L. White, Flagman.

Subscribed and sworn to before me this

28th

day of August, 1894 }



E. T. Garber
Notary Public

14

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alfredo R. Talamantes, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of the 17 day of April 1904, 189, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

T. 11 S., 1st R.S. 24 & 25 E. Guide Meridian through

Basalt of the Salt Lake meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alfredo R. Talamantes
United States Deputy Surveyor.

Subscribed by said Alfredo R. Talamantes, and sworn to before me
this 25th day of November 1904,

SEAL
cccccc

Edward H. Anderson
U.S. Surveyor-General
for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 27, 1905.

The foregoing field notes of the survey of the Guide Meridian, through Township 11 South, between Ranges 24 and 25 East of the Salt Lake Base and Meridian, Utah.

executed by Alfredo R. Talamantes and Harvey D. Heist, U.S. Deputy Surveyors under his contract No. 285, dated April 12, 1904, 189, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in
..... has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-326

FILED
OCT 22 1904z⁵

FIELD NOTES

OF THE SURVEY OF THE

a.c.

West & South Bds.

of
Township No. 11 South,
Range No 24 East.of the Salt Lake Basⁿt Meridian,
in the state of Utah.

AS SURVEYED BY

Alfredo R. Talamanca, United States Deputy Surveyor,
 thin Harry D. Heist April 17-1904, 189-
 Under his Contract No. 280, dated
 Survey commenced August 29- 1904, 189-
 Survey completed August 29-1904, 189-

6-151

West Bdy length 600-00' being 8.9
 South " " . 577.71'

NAMES AND DUTIES OF ASSISTANTS.

Earl Sholley	Chairman
Heber Christensen	"
Andrew Stumpf	Moundman
Edward J. Beard	Axman
John A. Kelly	Flagman

In case necessary official is see Park Co. Twp Reg't

BOOK A-326

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Township 11 S, Range 24 E

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



Survey commenced August 27, 1904 and executed with the instrument described in book "A", of this survey.

At the Standard cor. of Tp. 10 S., Rs. 23 and 24 E., heretofore described, approximate latitude $39^{\circ}54'N.$, longitude $109^{\circ}23'W.$, I set off $39^{\circ}54'N.$ on lat. arc, $10^{\circ}00'N.$ on decl. arc, and at 4 p.m., l.m.t., determine with the solar a meridian and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of cor.

At 9h. 06m. p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5.00 chs. N. of my station.

August 27, 1904.

August 28: At 6 a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ}34'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone, set last night, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 7 a.m., l.m.t., I set off $39^{\circ}54'N.$, on the lat. arc, $9^{\circ}47'N.$ on decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone, already set 5.00 chs. N. of my station, this mark falls 0.2 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m., and a.m. observations, defines positions for meridians, respectively about $0'16''$ west and $0'11''$ east of the meridian established by the Polaris observations, there I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h. 30m., a.m. is $N.16^{\circ}12'W.$, the angle thus determined gives the mag. decl. $16^{\circ}12'E.$

From the standard Tp.cor., heretofore described, I run west along standard line a dist of 68.99 chs., (which is the proper allowance for convergency of meridian at this

West Bdy. of T.11 S., R.24 E.

CHAINS	point).
	Set a sandstone, 24x12x10 ins., 18 ins. in the ground, for closing cor. to Tp.11 S., Rs.23 and 24 E., marked CC on S. with 6 grooves on S., E. and W. faces, from which
	A cedar 4 ins. diam., bears S.55° E., 69 lks. dist., marked T 11 S R 24 E S 6 B T.
	A cedar, 4 ins. diam., bears S.2° W., 44 lks. dist., marked T 11 S R 23 E S 1 B T.
	Thence I run, on a true line
	South, bet. secs. 1 and 6.
	Over broken and rocky land, descend abruptly through scattering cedar and pinon timber.
40.00	Set a sandstone, 18x12x3 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which
	A cedar, 8 ins. diam., bears S.69° E., 74 lks. dist., marked $\frac{1}{4}$ S 6 B T.
	A cedar, 12 ins. diam., bears S.33° W., 7 lks. dist., marked $\frac{1}{4}$ S 1 B T.
42.23	Gilsonite vein, 36 ins. wide on Pride of the West Lode, bears N.W. and S.E.
60.00	Bottom of hollow, 100 ft. deep, course E.
	Ascend.
63.60	Top of spur, projects N.E.
	Descend.
72.00	Hanging Rock Hollow, 200 ft. deep, course E.
	Ascend.
	Leave timber.
75.00	Top of spur, projects E.
	Descend.
80.00	Set a sandstone, 24x9x7 ins., 18 ins. in the ground, for cor. of secs. 1-6-7 and 12, marked with 1 notch on N. and 5 notches on S. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.

West Bdy. of T.11 S., R.24 E. C. 15.00

CHAINS	
	Land, mountainous.
	Soil, rocky, 3rd. and 4th. rate.
	Timber, cedar and pinon.
	Mountainous land on 80.00 chs.
	South bet. secs. 7 and 12.
	Descend over rocky land.
3.00	Bottom of hollow, 150 ft. deep, course N.E.
	Begin abrupt ascent.
	Enter scattering cedar and pinon timber.
25.90	Top of spur, projects N.E.
	Descend.
27.34	Gilsonite vein 30 ins. wide on Harrison Lode, bears N.W. and S.E.
31.00	Bottom of hollow, 100 ft. deep, course N.E.
	Ascend.
36.00	Top of spur, projects N.E.
	Descend.
39.00	Bottom of hollow, 100 ft. deep, course N.E.
	Ascend.
40.00	Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which
	A cedar, 7 ins. diam., bears S. 6° E., 1.36 chs. dist., marked $\frac{1}{4}$ S 17 B T.
	A cedar, 8 ins. diam., bears S. 12° W., 84 lks. dist., marked $\frac{1}{4}$ S 12 B T.
46.00	Top of rocky spur, projects N.E.
	Begin abrupt descent.
	Leave timber.
74.00	Elbow in bottom of West Fork of Asphalt wash, 500 ft. deep, course from S.E. to N.E.
	Ascend.
80.00	Set a sandstone, 24x12x4 ins., 18 ins. in the ground, for cor. of secs. 7-12-13 and 18, marked with 2 notches on N.

West Bdy. of T.11 S., R.24 E.

CHAINS	and 4 notches on S.edges, and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd.rate. Timber, cedar and pinon. Mountainous land on 80.00 chs.
	South, betsecs.13 and 18. Ascend abruptly over rocky land.
7.00	Top of spur, projects E. Begin abrupt descent.
11.00	Bottom of hollow, 100 ft.deep, course E. Ascend.
15.00	Top of spur, projects E. Begin abrupt descent.
36.00	Bottom of West Fork of Asphalt Wash, 400 ft.deep, course N.E. Begin abrupt ascent.
40.00	Set a sandstone, 20x12x3 ins., 15 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face, and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor. Pits impracticable.
48.00	Enter scattering cedar and pinon timber.
64.47	Gilsonite vein, 16 ins.wide, on South Harrison Lode, bears N.W.and S.E.
68.00	Top of spur, projects N.W. Descend.
75.00	Bottom of hollow, 75 ft.deep, course W. Ascend.
80.00	Set a sandstone, 28x12x4 ins., 21 ins.in the ground, for cor.of secs.13-18-19 and 24, marked with 3 notches on N. and S.edges, and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft. high, W.of cor. Pits impracticable.

West Bdy. of T. 11 S., R. 24 E.

CHAINS	Land, mountainous. Soil, rocky, 3rd. rate. Timber, cedar and pinon. Mountainous land on 80.00 chs. August 28: At this cor. I set off $9^{\circ}41'N.$ on decl. arc., and at 0h. 01m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $39^{\circ}51'N.$
	South bet. secs. 19 and 24.
	Ascend over rocky land.
8.90	Top of spur, projects W. Enter scattering cedar and pinon timber.
	Descend.
12.00	Bottom of hollow, 100 ft. deep, course W.
	Ascend.
20.00	Top of ridge, bears N.E. and S.W.
	Descend.
23.00	Head of hollow, course N.E.
	Ascend.
32.00	Top of spur, projects E.
	Descend.
40.00	Set a sandstone, 24x12x5 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face, from which A cedar, 7 ins. diam., bears $N.40^{\circ}E.$, 64 lks. dist., marked $\frac{1}{4}$ S 19 B T. A cedar, 4 ins. diam., bears $S.93^{\circ}W.$, 1.04 chs. dist., marked $\frac{1}{4}$ S 24 B T.
54.00	Bottom of hollow, 100 ft. deep, course N.E.
	Ascend.
61.00	Top of spur, projects N.E.
	Descend.
66.00	Bottom of hollow, 100 ft. deep, course N.E.
	Ascend.
78.00	Top of spur, projects N.E.
	Descend.

West Bdy. of T.11 S., R.24 E.

CRAINS

- #2.00 Set a sandstone, 24x8x6 ins., 12 ins. in the ground, for cor. of secn. 19-24-25 and 30, marked with 2 notches on S. and 4 notches on N. edges, and from which
A cedar, 9 ins. diam., bears N. 71° E., 72 lms. dist.,
marked T.11 S., R.24 E. S 19 B T.
A pinon, 6 ins. diam., bears S. 63° E., 46 lms. dist.,
marked T 11 S R 25 E S 30 B T.
No other trees within limits, and raise a mound of stone
2 ft. base, 1½ ft. high, W. of cor.
Site impracticable.
Land, mountainous.
Soil, rocky, 3rd. rate.
Timber, cedar and pinon.
Mountainous land on 80.00 chm.

South, bet. secn. 25 and 30.

Descend over rocky land, through scattering cedar and pinon timber.

#3.00 Bottom of hollow, 75 ft. deep, course N.E.

Anchored.

4.00 Top of ridge, bears N.W. and S.E.

Descend.

5.00 Bottom of hollow, 100 ft. deep, course W.

Anchored. Leave timber.

6.00 Silicite vein, 4 ins. wide, on Nigger Baby Lode, bears N.W. and S.E.

7.00 Set a sandstone, 20x10x6 ins., 15 ins. in the ground, for cor. of secn., marked † on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Site impracticable.

8.00 Top of spur, projects W.

Descent.

9.00 Bottom of hollow, 100 ft. deep, course W.

West. Bdy. of T. 11 S., R. 24 E.

CHAINS	
80.00	<p>Ascend,</p> <p>Set a sandstone, 28x12x4 ins., 21 ins. in the ground, for cor. of secs. 25-30-31 and 36, marked with 1 notch on S. and 5 notches on N. edges, from which</p> <p>A cedar, 5 ins. diam., bears N. 5° E., 1.43 chs. dist., marked T 11 S R 24 E S 30 B T.</p> <p>A cedar, 10 ins. diam., bears S. 76° 30' W., 49 lks. dist., marked T 11 S R 23 E S 36 B T.</p> <p>A cedar, 8 ins. diam., bears N. 8° W., 1.44 chs. dist., marked T 11 S R 23 E S 25 B T.</p> <p>No other trees within limits, and raise a mound of stone, 3 ft. base, 1½ ft. high, W. of cor.</p> <p>Pits impracticable.</p> <p>Land, mountainous.</p> <p>Soil, rocky, 3rd. rate.</p> <p>Timber, cedar and pinon.</p> <p>Mountainous land on 80.00 chs.</p> <hr/> <p>South, bet. secs. 31 and 36.</p> <p>Over rocky land, ascend through dense artemisia and scattering cedar and pinon timber.</p>
35.00	Top of spur, projects W.
	Begin abrupt descent.
40.00	<p>Set a sandstone, 20x12x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which</p> <p>A cedar, 8 ins. diam., bears N. 71° E., 41 lks. dist., marked $\frac{1}{4}$ S 31 B T.</p> <p>A cedar, 8 ins. diam., bears N. 19° W., 19 lks. dist., marked $\frac{1}{4}$ S 36 B T.</p>
73.00	Bottom of hollow, 100 ft. deep, course S. W.
	Ascend.
77.00	Top of spur, projects S. W.
	Descend.
80.00	Set a sandstone, 20x10x10 ins., 15 ins. in the ground, for cor.

West Bdy. of T.11 S., R.24 E.

CHAINS

cor. of Tps. 11 and 12 S., Rs. 23 and 24 E., marked
11 S on N.E., 24 E on S.E., 12 S on S.W. and 23 E. on
N.W. face, with 6 notches on each edge, from which

A cedar, 8 ins. diam., bears N. 83° E., 99 lks. dist.,
marked T 11 S R 24 E S 31 B T.

A cedar, 10 ins. diam., bears N. 28° W., 1.45 chs. dist.,
marked T 11 S R 23 E S 36 B T.

No other trees within limits and raise a mound of stone,
2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

August 28, 1904.

SOUTH BDY. OF T.11 S., R.24 E.

August 29.: At 7 a.m., l.m.t., I set off $39^{\circ}49'N.$ on the lat.
arc; $9^{\circ}26'N.$ on the decl. arc; and determine a meridian with
the solar at the cor. of Tps. 11 and 12 S., Rs. 24 and 25
E., on the Guidé Meridian, heretofore described.

Thence I run

West on a random line, along the south boundary of the
township, setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals
of 40.00 chs.; and at 477.71 chs., intersect West bdy. of
the township, 15 lks. N. of the cor. of Tps. 11 and 12 S.,
Rs. 23 and 24 E., heretofore described.

The falling answers to a correction of $0^{\circ}01'$, or $2\frac{1}{2}$ lks.
S., per mile, counting from the SE.cor. of the Tp.;

Therefore I run

N. $89^{\circ}59'E.$, on a true line.

bet. secs. 6 and 31.

South Bdy. of T.11 S., R.24 E.

CHAINS	
	Descend over rocky land through dense artemisia, and scattering cedar timber.
3.00	Bottom of hollow, 50 ft. deep, course SW. Ascend.
7.00	Top of spur projects SW. Descend.
10.00	Bottom of hollow, 100. ft. deep, course SW. Ascend.
13.00	Top of spur projects SW. Descend.
24.50	Bottom of hollow, 75 ft. deep, course SW. Ascend.
29.50	Top of spur projects SW. Descend.
37.71	Set a sandstone, 24x10x3 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A cedar, 7 ins. diam., bears N. 14° W., 1.28 chs. dist., marked $\frac{1}{4}$ S 31 B T. A cedar, 4 ins. diam., bears S. 51° W., 1.25 chs. dist., marked $\frac{1}{4}$ S 6 B T..
38.75	Bottom of hollow, 75 ft. deep, course SW. Ascend.
69.50	Top of ridge bears NW. and SE. Descend.
77.71	Set a sandstone, 24x9x5 ins., 18 ins. in the ground, for cor. of secs. 5-6-31 and 32, marked with 1 notch on the W. and 5 notches on the E. edge; from which A cedar, 15 ins. diam., bears N. $81^{\circ}30'$ E., 1.11 chs. dist., marked T 11 S R 24 E S 32 B T. A cedar, 15 ins. diam., bears S. 79° E., 1.29 chs. dist., marked T 12 S R 24 E S 5 B T. A cedar, 15 ins. diam., bears S. 60° W., 1.37 chs. dist., marked T 12 S R 24 E S 6 B T. A cedar, 8 ins. diam., bears N. $86^{\circ}30'$ W., 98 lks. dist.,

South Bdy. of T.11 S., R.24 E.

CHAINS	<p>marked T 11 S R 24 E S 31 B.T.</p> <p>Land, mountainous.</p> <p>Soil: rocky, 3rd rate.</p> <p>Timber, cedar.</p> <p>Mountainous land and dense undergrowth on 77.71 chs.</p> <hr/> <p>N. 89° 59' E., bet. secs. 5 and 32.</p> <p>Descend over scattering cedar and pinon timber, and dense artemisia.</p>
31.00	<p>Bottom of hollow, 100 ft. deep, course NE.</p> <p>Ascend.</p>
40.00	<p>Set a sandstone, 24x9x4 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which</p> <p>A cedar, 5 ins. diam., bears N. 26° W., 43 lks. dist., marked $\frac{1}{4}$ S 32 B.T.</p> <p>A cedar, 9 ins. diam., bears S. 59° W., 45 lks. dist., marked $\frac{1}{4}$ S 5 B.T.</p>
57.80	<p>Top of spur projects NE.</p> <p>Descend.</p>
71.00	<p>Bottom of hollow, 75 ft. deep, course NE.</p> <p>Ascend.</p>
80.00	<p>On top of spur projecting N.,</p> <p>Set a sandstone, 24x12x10 ins., 18 ins. in the ground, for cor. of secs. 4-5-32 and 33, marked with 2 notches on the W. and 4 notches on the E. edge; and raise a mound of stone, $2\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.</p> <p>Pits impracticable.</p> <p>Land mountainous.</p> <p>Soil: rocky, 3rd rate.</p> <p>Timber, cedar and pinon.</p> <p>Mountainous land and dense undergrowth on 80.00 chs.</p> <hr/>

CHAINS	
	N. $89^{\circ}59' E.$, bet. secs. 4 and 33.
	Descend over rocky land through dense artemisia.
4.00.	Bottom of hollow, 100 ft. deep, course N.E.
	Ascend.
12.00	Top of spur projects N.
	Begin abrupt descent.
40.00	Set a sandstone, 18x10x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable...
46.00	Bottom of center fork of Asphalt Wash, 400 ft. deep, course N.
	Begin abrupt ascent..
49.25	A well, belonging to St. Louis Gilsonite Co., 80 ft. deep, bears N., 2.85 chs. dist.
53.00	A gilsonite vein, 2 ft. wide, on the Nigger Baby Lode, bears NW. and SE.
58.40	Top of spur projects N.
	Begin abrupt descent. Enter scattering cedar and pinons.
64.00	Bottom of hollow, 150 ft. deep, course N.
	Ascend.
69.00	Top of spur projects N.
	Begin abrupt descent.
73.00	Bottom of hollow, 100 ft. deep, course N.
	Ascend.
78.70	Top of spur projects N.
	Descend.
80.00	Set a sandstone, 18x10x6 ins., 12 ins. in the ground, for cor. of secs. 3-4-33 and 34, marked with 3 notches on the E. and W. edges, from which A cedar 7 ins. diam., bears N. $39^{\circ}30' E.$, 89 lks. dist., marked T 11 S R 24 E S 34 B T. A cedar, 8 ins. diam., bears S. $49^{\circ}30' E.$, 1.63 chs. dist., marked T 12 S R 24 E S 3 B T.

South Bdy. of T.11 S., R.24 E.

Chains

A cedar, 10 ins. diam., bears S. $1^{\circ}30'$ W., 1.41 chs. dist., marked T 12 S R 24 E S 4 B T.

A cedar, 4 ins. diam., bears N. 32° W., 1.05 chs. dist., marked T 11 S R 24 E S 33 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land and dense undergrowth on 80.00 chs.

August 29: At this cor., I set off $9^{\circ}20'$ N. on the decl. arc; and at 0h 0lm p.m., l.m.t., observe the sun on the meridian; the resulting lat. is $39^{\circ}49'$ N.

N. $89^{\circ}59'$ E., bet. secs. 3 and 34.

Descend over rocky land through scattering cedar and pinon timber.

1.00 Bottom of hollow, 75 ft. deep, course N.

Ascend.

3.40 Top of spur projects N.

Descend.

8.00 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

10.50 Top of spur projects N.

Descend.

19.00 Bottom of hollow, 300 ft. deep, course NW.

Begin abrupt ascent.

40.00 Set a sandstone, 18x8x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

52.50 Top of ridge bears NW. and SE.

Descend.

55.00 Bottom of hollow, 100 ft. deep, course N.

Ascend.

South Bdy. of T.11 S., R.24 E.

CHAINS	
62.00	Top of spur projects N. Descend.
73.00	Bottom of hollow, 100 ft. deep, course N. Ascend.
80.00	On top of spur projecting N., Set a limestone, 24x10x4 ins., 18 ins. in the ground, for cor. of secs. 2-3-34 and 35, marked with 4 notches on the W. and 2 notches on the E. edge; from which A cedar, 8 ins. diam., bears N. $47^{\circ}30' E.$, 36 lks. dist., marked T 11 S R 24 E S 35 B*T. A cedar, 5 ins. diam., bears S. $41^{\circ}30' E.$, 28 lks. dist., marked T 12 S R 24 E S 2 B*T. A cedar, 6 ins. diam., bears S. $75^{\circ} W.$, 58 lks. diat., marked T 12 S R 24 E S 3 B T. A cedar, 5 ins. diam., bears N. $71^{\circ} W.$, 46 lks. dist., marked T 11 S R 24 E S 34 B T. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 80.00 chs.
	N. $89^{\circ}59' E.$, bet. secs. 2 and 35. Descend abruptly over rocky land through scattering cedar and pinon timber.
11.50	Bottom of hollow, 200 ft. deep, course NW. Begin abrupt ascent.
22.40	Top of spur projects S. Descend.
36.25	Bottom of hollow, 100 ft. deep, course S. Ascend.
39.70	Top of spur projects S. Descend.
40.00	Set a limestone, 24x8x3 ins., 18 ins. in the ground, for

South Bdy. of T. 11 S., R. 24 E.

CHAINS	$\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face; from which A cedar, 6 ins. diam., bears N. 4° W., 1.11 chs. dist., marked $\frac{1}{4}$ S 35 B T. No other trees within limits; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
42.00	Bottom of hollow, 75 ft. deep, course S. Ascend.
71.50	Top of ridge bears N. and S. Descend.
77.50	Bottom of hollow, 100 ft. deep, course N. Ascend.
80.00	Set a limestone, 24x15x3 ins., 18 ins. in the ground, for cor. of secs. 1-2-35 and 36, marked with 5 notches on the W. and 1 notch on the E. edge; from which A cedar, 15 ins. diam., bears N. 39° E., 75 lks. dist., marked T 11 S R 24 E S 36 B T. A cedar, 10 ins. diam., bears S. 54° E., 48 lks. dist., marked T 12 S R 24 E S 1 B T. A cedar, 5 ins. diam., bears N. 49° W., 53 lks. dist., marked T 11 S R 24 E S 35 B T. No other trees within limits; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 80.00 chs.
	N. $89^{\circ}59'$ E., bet. secs. 1 and 36.
	Ascend through scattering cedar and pinon timber.
18.00	Top of ridge bears NW. and SE. Descend.
39.00	Bottom of hollow, 100 ft. deep, course N.

South bdy. of T.11 S., R.24 E.

CHAINS	
40.00	Ascend. Set a sandstone, 28x12x3 ins., 21 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which A cedar, 15 ins. diam., bears N.78°E., 1.70 chs.dist., marked $\frac{1}{4}$ S 36 B T. A cedar, 12 ins. diam., bears S.18°E., 1.22 chs.dist., marked $\frac{1}{4}$ S 1 B T.
80.00	The cor.of tps.11 and 12 S.,Rs.24 and 25 E. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon . Mountainous land on 80.00 chs.

August 29. 1904.

For general description see Subdivisions of
T.11 S., R.24 E.

Boundaries of T.11 S., R.24 E.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			North chs.	South chs.	East chs.	West chs.
2ND Stan.PAR.S.	West	477.00				477.00
W.bdy., T.11 S., R.24 E.	South	480.00		480.00		
S.bdy., T.11 S., R.24 E.	N.89°59'E.	477.71	0.15		477.71	
Guide Mer.thro T.11 S., bet.Rs. 24 and 25 E.	North	480.00	480.00			
Convergency						0.60
Totals.....			480.15	480.00	477.71	477.60
Error in lat.....			480.00		477.60	
			0.15	Dep....	0.11	

Harvey Ll. First,
US Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by
....., United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of
.....
showing the respective capacities in which they acted:

....., Chainman.

....., Chainman.

Tau ficial affidavits see book Z" 1125 P 24 E, Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
....., United States Deputy Surveyor, in surveying all
those parts or portions of the
.....
....., of the
....., meridian, of, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for

....., Chainman.

....., Chainman.

....., Moundman.

Tau ficial affidavits see book Z" 1125 P 24 E, Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this }
day of , 180 }

SEAL

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for _____ bearing date of the day of _____, 189_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

The final affidavit see book Z" 735124 C

of the _____ meridian, in the _____ of _____ which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189_____ }

XXXXXX
X KEL X
XXXXXX

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, May 27, 1905. *XMK*

The foregoing field notes of the survey of the West and South Boundaries of Township No. 11, South, Range No. 24, East of the Salt Lake Meridian, in the State of Utah,

executed by Alfred R. Palomares and Harry J. Heist, U.S. Deputy Surveyors under his contract No. 285, dated April 12, 1904, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Cuddeback

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____ has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-326

FILED

OCT 22 1904

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FIELD NOTES

OF THE SURVEY OF THE

S-O-U-T-H B-O-U-N-D-A-R-Y

of

Township No. 11 South,

Range No. 25 East.

Of the Salt Lake Base and Meridian,
in the state of Utah.

AS SURVEYED BY

Alfredo R. Talamantes and Harvey D. Heist, United States Deputy Surveyor,

Under their Contract No. 285, dated April 12, 1904. 189

Survey commenced August 29, 1904. 189

Survey completed August 29, 1904. 189

A. R. Talamantes
H. D. Heist

18

NAMES AND DUTIES OF ASSISTANTS.

James L White Chairman

Catherine White

Edward M Hodges Moundman

William Pearson Axman

William L White Flagman

INDEX DIAGRAM.

Township _____, *Range* _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

We, Julius H. Phifer

and Egbert White

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring to the best of our skill and ability, and in accordance with instructions given us, in the survey of S. 13^d, T. 11 S., R. 25 E. of the Salt Lake Base and Meridian, Utah.

Julius H. White, Chairman.
Egbert White, Chairman.

Subscribed and sworn to before me this

29

day of August 1904 }

E. T. Garber

Metary public

We,

Howard M. Stodge

and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of S. 13^d, T. 11 S., R. 25 E. of the Salt Lake Base and Meridian, Utah.

Howard M. Stodge

Moundman.

, Moundman.

Subscribed and sworn to before me this

29

day of August 1904 }

E. T. Garber

Metary public

We,

William Pearson

and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

S. 13^d, T. 11 S., R. 25 E. of the Salt Lake Base and Meridian, Utah.

William Pearson, Axman.

, Axman.

Subscribed and sworn to before me this

29

day of August 1904, A.D. }

E. T. Garber

Metary public

I,

William L. White

do solemnly swear that I will well and truly

perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of S. 13^d, T. 11 S., R. 25 E. of the Salt Lake Base and Meridian, Utah.

William L. White, Flagman.

Subscribed and sworn to before me this

29

day of August 1904, }

E. T. Garber

Metary public

SOUTH BDY.OF T.11 S., R.25 E.

CHAINS	
	Survey commenced August 29, 1904, and executed with the instrument described in book "N" of this survey.
	I know the instrument to be in adjustment from recent observations made August 27, 1904, and recorded in book "Z" of this survey.
	At 7h 01 m a.m., l.m.t., I set off $39^{\circ}49' N.$ on the lat. arc; $9^{\circ}25' N.$ on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 11 and 12 S., Rs. 24 and 25 E.
	Knowing the Utah-Colorado Bdy. Line is within a mile of the point for the location of the east bdy. of T.11 S., R.25 E., I run
	East on a true line,
	bet. secs. 6 and 31.
	Ascend over rocky land through dense artemisia.
14.00	Top of ridge bears N. and S. Road bears N. and S. Descend.
27.00	Bottom of hollow, 350 ft. deep, course NE. Begin abrupt ascent.
30.00	Point of spur projects N. Begin abrupt descent.
34.00	Bottom of hollow, 250 ft. deep, course NW. Ascend.
40.00	Set a sandstone, 16x12x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
59.00	Top of spur projects NE. Enter scattering cedar and pinon timber. Descend.
70.00	Bottom of hollow, 300 ft. deep, course N. Ascend.
80.00	Set a sandstone, 14x10x6 ins., 9 ins. in the ground, for cor. of secs. 5-6-31 and 32, marked with 1 notch on the

SOUTH BDY.OF T.11 S., R.25 E.

CHAINS	<p>w. and 5 notches on the E. edge; from which</p> <p>A pinon, 12 ins. diam., bears N.$82^{\circ}30' E.$, 90 lks. dist., marked T 11 S R 25 E S 32 B T.</p> <p>A cedar, 12 ins. diam., bears S.$31^{\circ} E.$, 1.28 chs. dist., marked T 12 S R 25 E S 5 B T.</p> <p>A pinon, 12 ins. diam., bears S.$80^{\circ} W.$, 89 lks. dist., marked T 12 S R 25 E S 6 B T.</p> <p>A pinon, 8 ins. diam., bears N.$59^{\circ} W.$, 97 lks. dist., marked T 11 S R 25 E S 31 B T.</p> <p>Land, mountainous.</p> <p>Soil, rocky, 3rd rate.</p> <p>Timber, cedar and pinon.</p> <p>Mountainous land and dense undergrowth on 80.00 chs.</p> <hr/> <p>East bet. secs. 5 and 32.</p> <p>Ascend over rocky land through scattering cedar and pinon timber, and dense artemisia.</p>
3.00	Top of spur projects N.
	Descend.
13.00	Bottom of hollow, 50 ft. deep, course N.
	Ascend.
17.00	Top of ridge bears N. and S.
	Begin abrupt descent.
23.00	Bottom of hollow, 100 ft. deep, course NE.
	Ascend.
28.00	Top of spur projects NE.
	Descend.
37.00	Bottom of hollow, 50 ft. deep, course NE.
	Begin abrupt ascent.
40.00	On top of spur projecting N., Set a sandstone, 16x12x3 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
	A pinon, 10 ins. diam., bears N. $63^{\circ} W.$, 60 lks. dist., marked $\frac{1}{4}$ S 32 B T.

South Boundary of T. 11 S., R. 25 E.

CHAINS	
	No other trees within limits; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
45.00	Bottom of hollow, 200 ft. deep, course NE. Ascend.
65.50	Top of ridge bears NE. and SW. Descend.
71.72	Gilsonite vein, 2 ft. wide, on Rainbow Lode, bears NW. and SE.
74.00	Bottom of hollow, 200 ft. deep, course NE. Ascend.
80.00	Set a sandstone, 16x12x5 ins., 11 ins. in the ground, for cor. of secs. 4-5-32 and 33, marked with 2 notches on the W. and 4 notches on the E. edge; from which A pinon, 8 ins. diam., bears N. 23° E., 21 lks. dist., marked T. 11 S., R. 25 E S 33 B T. A pinon, 7 ins. diam., bears S. 42° E., 52 lks. dist., marked T 12 S R 25 E S 4 B T. A pinon, 9 ins. diam., bears S. 18° W., 31 lks. dist., marked T 12 S R 25 E S 5 B T. No other trees within limits; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd rate. Timber, cedar and pinon. Mountainous land and dense undergrowth on 80.00 chs.

	East, bet. secs. 4 and 33. Ascend over rocky land through scattering cedar and pinon timber, and dense artemisia.
8.00	Top of spur projects NE. Descend.
15.95	Bottom of hollow, 150 ft. deep, course NE.

SOUTH BDY. OF T.11 S., R.25 E.

CHAINS

Begin abrupt ascent.

22.00 Top of ridge bears NE. and S. Begin abrupt descent.

37.00 Hollow drains NE.

39.00 Top of ridge bears NE. and SW.

Descend.

40.00 Set a sandstone, 14x8x6 ins., 9 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face; from which

A cedar, 10 ins. diam., bears N. 17° E., 50 lks. dist.,
marked $\frac{1}{4}$ S 33 B T.

A cedar, 12 ins. diam., bears S. 22° E., 50 lks. diat.,
marked $\frac{1}{4}$ S 4 B T.

42.00 Head of hollow, course NE.

Ascend.

69.00 Top of ridge bears NE. and SW.

Descend.

80.00 Set a sandstone, 16x12x3 ins., 11 ins. in the ground, for
cor. of secs. 3-4-33 and 34, marked with 3 notches on the
E. and W. edges; from which

A pinon, 8 ins. diam., bears N. 64° W., 83 lks. dist.,
marked T 11 S R 25 E S 33 B T.

A pinon, 8 ins. diam., bears S. 37° W., 1.16 chs. dist.,
marked T 12 S R 25 E S 4 B T.

No other trees within limits; and raise a mound of
stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land and dense undergrowth on 80.00 chs.

August 29: At this cor., I set off $9^{\circ}20'$ N. on the decl.
arc; and at Oh. 0lm., p.m. l.m.t., observe the sun on the
meridian, the resulting lat. is $39^{\circ}49'$ N.

South Bdy. of T. 11 S., R. 25 E.

CHAINS	
	East, bet. secs. 3 and 34.
	Descend over rocky land, through scattering cedar and pinon timber and dense artemisia.
11.00	Bottom of hollow, 400 ft. deep, course N.E.
	Begin abrupt ascent.
24.00	Top of spur, projects N.E.
	Descend.
28.00	Bottom of hollow, 300 ft. deep, course N.E. Ascend abruptly.
32.00	Spur projects N.E. mt.
39.00	Head of hollow, course N.E.
	Ascend.
40.00	Set a sandstone, 15x12x5 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which
	A pinon, 10 ins. diam., bears S. $9^{\circ}40' E.$, 57 lks. dist., marked $\frac{1}{4}$ S 3 B.T.
	A pinon, 11 ins. diam., bears N. $7^{\circ}20' E.$, 64 lks. dist., marked $\frac{1}{4}$ S 34 B.T.
41.00	Top of spur, projects N.E.
	Descend.
73.00	Leave timber.
80.00	Set a sandstone, 16x10x6 ins., 11 ins. in the ground, for cor. of secs. 2-3-34 and 35, marked with 2 notches on E. and 4 notches on W. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil, rocky, 3rd. and 4th. rate.
	Timber, cedar and pinon.
	Mountainous land and dense undergrowth 20.00 chs.
	East, bet. secs. 2 and 35.
	Descend over rocky land, through dense artemisia.
1.20	Bottom of hollow, 75 ft. deep, course N.E.

South Bdy. of T. 11 S., R. 25 E.

CHAINS	
	Ascend.
3.00	Top of spur, projects N.
	Descend.
10.10	Wagon road, from Dragon to Vernal, bears N.W. and S.E.
13.00	Bottom of Evacuation Canon, 500 ft. deep, course N.W. Thence along bottom of canon.
17.00	Leave bottom of canon.
	Ascend.
20.00	Top of spur, projects N.
	Descend.
23.00	Bottom of Evacuation Canon, 500 ft. deep, course N.W. Ascend.
34.60	Foot of steep sandstone ledges, bearing N. and S. Set a sandstone, 24x20x5 ins., 18 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked W C $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
40.00	Point for $\frac{1}{4}$ sec. cor. falls on steep slope of sandstone ledges and cannot be set.
45.00	Top of spur, projects S.W.
	Descend.
50.00	Enter scattering cedar and pinon timber.
53.00	Hollow, 100 ft. deep, course S.W. Ascend.
63.00	Top of spur, projects S.W. Descend.
74.00	Bottom of hollow, 250 ft. deep, course S.W. Begin abrupt ascent.
80.00	Set a sandstone, 16x12x4 ins., 11 ins. in the ground, for cor. of secs. 1-2-35 and 36, marked with 1 notch on E. and 5 notches on W. edges, from which A pinon, 12 ins. diam., bears N. 8° E., 85 lks. dist., marked T 11 S R 25 E. S 36 B T. A pinon, 10 ins. diam., bears S. $65^{\circ}30'$ E., 51 lks. dist.,

(7)

South Bdy. of T. 11 S., R. 25 E.

CHAINS

marked T 12 S R 25 E S 1 B T.

A pinon, 12 ins. diam., bears S. $51^{\circ}20'W.$, 46 lks. dist.,
marked T 12 S R 25 E S 2 B T.

A pinon, 12 ins. diam., bears N. $44^{\circ}W.$, 65 lks. dist.,
marked T 11 S R 25 E S 35 B T.

Land, mountainous.

Soil, rocky, 3rd. and 4th. rate.

Timber, cedar and pinon.

Mountainous land and dense undergrowth 80.00 chs.

East, bet. secs. 1 and 36.

Over rocky land, ascend through scattering cedar and
pinon timber.

3.00 Top of spur, projects S.W.

Descend.

23.00 Bottom of hollow, 250 ft. deep, course S.W.

Ascend.

33.00 Top of spur, projects S.W.

Descend.

40.00 Bottom of hollow, course S.W.

Set a sandstone, 16x12x3 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which

A pinon, 14. ins. diam., bears S. $80^{\circ}30'W.$, 31 lks. dist.,
marked $\frac{1}{4}$ S. 1 B T.

A pinon, 12. ins. diam., bears N. $64^{\circ}50'W.$, 37 lks. dist.,
marked $\frac{1}{4}$ S 36 B T.

Ascend.

56.00 Top of spur, projects S.W.

Descend.

83.00 Bottom of hollow, 200 ft. deep, course S.W.

Begin abrupt ascent.

93.00 Top of spur, projects S.W.

Descend.

107.87 Intersect the Utah-Colorado boundary line, 44.71 chs.

South Bdy. of T.11 S., R.25 E.

CHAINS

south, of the 194 3-4 mile cor., heretofore described.
 Set a sandstone, 18x12x5 ins., 12 ins. in the ground, for
 closing cor. to Tps. 11 and 12 S., R.25 E., marked U CC on
 W., C on E., with 6 grooves on N. S. and W. faces, from which
 A pinon, 12 ins. diam., bears S. $67^{\circ}45'W.$, 96 lks. dist.,
 marked T 12 S R 25 E S 1 B T.
 A pinon, 13 ins. diam., bears N. $71^{\circ}30'W.$, 1.29 chs. dist.
 marked T 11 S R 25 E S 36 B T.

Land, mountainous.

Soil, rocky, 3rd. and 4th. rate.

Timber, cedar and pinon.

Mountainous land on 107.87 chs.

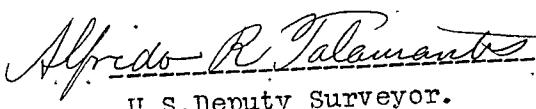
August 29, 1904.

For general description see, Subdivisions of
 T.11 S., R.25 E.

BOUNDARIES OF T.11 S., R.25 E.

Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
South boundary. East		507.87				.507.87.
Utah-Colorado Bdy. line	North	44.71	44.71			
	N. $0^{\circ}50'W.$	166.49	166.49			2.42
	N. $0^{\circ}08'W.$	88.32	88.32			0.19
	N. $0^{\circ}01'E.$	79.62	79.62			0.03
	N. $0^{\circ}10'W.$	100.89	100.89			0.29
2nd. Stan. Par. S.	West	509.99				509.99
Guide Mer.	South	480.00		480.00		0.61
Convergency						
Totals			479.93	480.00	510.51	510.89
				479.93	510.51	510.51
Error in lat. and dep.					0.07	.38



U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alfredo R. Palamantes,
 United States Deputy Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of
July 21st, 1904, N. 25 E. of the Salt Lake Base and
Meridian, Utah;
 showing the respective capacities in which they acted:

Julius N. White, Chainman.
Ogbert White, Chainman.
Howard M. Dodge, Moundman.
Howard M. Dodge, Moundman.
William Pearsons, Arman.
William L. White, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfredo R. Palamantes,
 United States Deputy Surveyor, in surveying all
 those parts or portions of the July 21st, 1904, N. 25 E.

Salt Lake of the District
Base and meridian, in State of Utah, which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for Utah.

Julius N. White, Chainman.
Ogbert White, Chainman.
Howard M. Dodge, Moundman.

Julius N. White, Moundman.

..... Arman.

William L. White, Flagman.

Subscribed and sworn to before me this 29th,

day of August 1904, 1904.

6-1000
6-1000
6-1000
6-1000
6-1000
6-1000

E. T. Garber
Officer of the Public

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alfredo R. Talamantes, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of the 12 day of April 1904, 189-, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of South Rdg of T. 11 S., R. 25 E.

Pass and base of the Salt Lake meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alfredo R. Talamantes
United States Deputy Surveyor.

Subscribed by said Alfredo R. Talamantes, and sworn to before me
this 25th day of November, 1904. xxx

SEAL
for Utah.

Edward H. Anderson
U.S. Surveyor General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 27, 1905. xxx

The foregoing field notes of the survey of the South Boundary of Township No. 11 South, Range No. 25 East of the Salt Lake Base and Meridian, Utah

executed by Alfredo R. Talamantes and Harvey D. Heist, U.S. Deputy Surveyors
under his contract No. 285, dated April 12, 1904, xxx, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in
has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-326

FILED

OCT 22 1904

FIELD NOTES

OF THE SURVEY OF THE

S-U-B-D-L-V-I-S-I-O-N-S

of

Township No. 11 South,

Range No. 25 East.

Of the Salt Lake Base and Meridian,
 in the state of Utah.

AS SURVEYED BY

Alfredo R. Talamantes and Harvey D. Heist, United States Deputy Surveyors,
 Under his Contract No. 285, dated April 12, 1904., 189
 Survey commenced August 30, 1904., 189
 Survey completed September 7, 1904., 189

6-151

*Augt 6 1904
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NAMES AND DUTIES OF ASSISTANTS.

Julius H. White Chairman
Egbert White
Howard M. Hodges Roundman
William Pearson Axman
William L. White Flagman

BOOK A-326

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, Julius H White and Egbert White
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Subdivisions of T 11 S R 25 E of the Salt Lake Base and Meridian, Utah.

Julius H. White, Chainman.
Egbert White, Chainman.

Subscribed and sworn to before me this 30
day of August 1904



E. T. Garber

Naturalized public

WE, Howard M Hodge and
do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of Subdivisions of T 11 S R 25 E of the Salt Lake Base and Meridian, Utah.

Howard M. Hodge, Moundman.

, Moundman.

Subscribed and sworn to before me this 30
day of August, 1904



E. T. Garber

Naturalized public

WE, William Pearson and
do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of Subdivisions of T 11 S R 25 E of the Salt Lake Base and Meridian, Utah.

William Pearson, Axman.

, Axman.

Subscribed and sworn to before me this 30
day of August, 1904



E. T. Garber

Naturalized public

I, William L White, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Subdivisions of T 11 S R 25 E of the Salt Lake Base and Meridian, Utah.

William L White, Flagman.

Subscribed and sworn to before me this 30
day of August, 1904



E. T. Garber

Naturalized public

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS	<p>Survey commenced August 30, 1904, and executed with the instrument described in book "N" of this survey.</p> <p>I know the instrument to be in adjustment from recent observations made August 27, 1904, and recorded in book "Z" of this survey.</p> <p>At 7h a.m., l.m.t., I set off $39^{\circ}49' N.$ on the lat.arc; $9^{\circ}04' N.$ on the decl.arc; and determine a meridian with the solar at the cor. of secs. 5-6-31 and 32, heretofore described on the S.bdy. of T.11 S., R.25 E.</p> <p>Thence I run</p> <p style="text-align: center;">$N.0^{\circ}01' E.$, bet. secs. 31 and 32.</p> <p>Descend over rocky land through scattering cedar and pinon timber, and dense artemisia.</p>
13.50	Bottom of hollow, 200 ft. deep, course NW. Ascend.
17.00	Top of spur projects NW. Descend.
25.50	Bottom of hollow, 100 ft. deep, course NW. Ascend.
30.00	Top of spur projects NW. Descend.
34.00	Bottom of hollow, 150 ft. deep, course W. Ascend.
40.00	Set a sandstone, 16x8x6 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
49.20	A gilsonite vein, 18 ins. wide, on Rainbow Ridge, bears NW. and SE.
50.50	Top of ridge bears E. and W. Descend.
80.00	Set a sandstone, 20x10x5 ins., 15 ins. in the ground, for cor. of secs. 29-30-31 and 32, marked with 1 notch on the S. and 5 notches on the E. edge; and raise a mound of

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS	stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil; rocky, 3rd rate. Timber; cedar and pinon. Mountainous land and dense undergrowth on 80.00 chs.

	West on a random line bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect Guide Meridian, 3 lks. S. of the cor. of secs. 25-30-31 and 36, heretofore described. Thence I run
	S. $89^{\circ}59' E.$ on a true line bet. secs. 30 and 31.
	Descend over rocky land through scattering cedar and pinon timber, and dense artemisia.
25.00	Bottom of hollow, 150 ft. deep, course N. Ascend.
36.00	Top of spur projects N. Begin abrupt descent.
40.02	Set a sandstone, 20x8x5 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
40.50	Bottom of ravine, 75 ft. deep, course N. Begin abrupt ascent.
42.00	Top of ridge bears N. and S. Descend.
50.00	Bottom of ravine, 100 ft. deep, course N. Ascend.
52.00	Top of ridge bears N. and S. Descend.
56.00	Bottom of ravine, 150 ft. deep, course N. Ascend.

SUBDIVISIONS OF T. 11 S., R. 25 E.

CHAINS	
80.04	The cor. of secs. 29-30-31 and 32. Land, mountainous. Soil; rocky, 3rd rate. Timber, cedar and pinon. Mountainous land and dense undergrowth on 80.04 chs. N. 0° 01' E., bet. secs. 29 and 30. Descend over rocky land through dense artemisia and scattering cedar timber.
17.00	Bottom of ravine, 300 ft. deep, course NW. Ascend.
26.00	Top of spur projects NW. Descend.
31.00	Bottom of ravine, 100 ft. deep, course NW. Ascend.
34.00	Top of spur projects NW. Descend.
40.00	Set a sandstone, 20x9x5 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
52.00	Bottom of ravine, 100 ft. deep, course W. Ascend.
58.00	Top of spur projects SW. Descend.
80.00	Set a sandstone, 20x8x4 ins., 15 ins. in the ground, for cor. of secs. 19-20-29 and 30, marked with 2 notches on the S. and 5 notches on the E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil; rocky, 3rd rate. Timber, cedar. Mountainous land and dense undergrowth on 80.00 chs.

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS	N. $89^{\circ}59'W.$ on a random line bet. secs. 19 and 30.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect Guide Meridian, 5 lks. S. of the cor. of secs. 19-24-25 and 30, heretofore described.
	Thence I run
	S. $89^{\circ}57'E.$ on a true line bet. secs. 19 and 30.
	Descend over rocky land through scattering cedar timber and dense artemisia.
3.00	Bottom of hollow, 100 ft. deep, course NE.
	Begin abrupt ascent.
7.50	Top of spur projects NE.
	Descend.
24.00	Wagon road bears NE. and SW.
29.00	Bottom of hollow, 200 ft. deep, course NW.
	Ascend.
39.50	Top of ridge bears N. and S.
	Descend.
40.03	Set a sandstone, $14 \times 8 \times 6$ ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
56.00	Bottom of hollow, 100 ft. deep, course N.
	Ascend.
63.00	Top of ridge bears N. and S.
	Descend.
66.50	Bottom of hollow, 100 ft. deep, course N.
	Ascend.
	$89^{\circ}57'E.$
	Land, mountainous.
80.06	The cor. of secs. 19-20-29 and 30.
	Land, mountainous.
	Soil: rocky, 3rd rate.
	Timber cedar.

SUBDIVISIONS OF T. 11 S., R. 25 E.

CHAINS	
	Mountainous land and dense undergrowth on 80.06 chs. August 30: At this cor., I set off 8° 58' N. on the decl. arc; and, at 0h 01m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is 39° 50' N. N. 0° 01' E., bet. secs. 19 and 20.
	Ascend over rough broken country through dense artemisia.
10.00	Top of spur projects W.
	Descend.
12.00	Bottom of hollow, 50 ft. deep, course W.
	Ascend.
17.00	Top of spur projects W.
	Descend.
21.00	Bottom of hollow, 100 ft. deep, course NW.
	Ascend.
24.00	Top of spur projects NW.
	Descend.
40.00	Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
45.00	Bottom of hollow, 150 ft. deep, course NE.
	Ascend.
54.00	Top of spur projects NE.
	Descend.
63.00	Bottom of ravine, 400 ft. deep, course NE.
	Ascend abruptly.
80.00	Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for cor. of secs. 17-18-19 and 20, marked with 3 notches on the S. and 5 notches on the E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil: rocky, third rate.

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS	Timber, none. Mountainous land and dense undergrowth on 80.00 chs.
	N. 89° 57' W. on a random line bet. secs. 18 and 19.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect Guide Meridian, 9 lks. N. of the cor. of secs. 13-18-19 and 24, heretofore described. Thence I run N. 89° 59' E. on a true line bet. secs. 18 and 19.
	Descend over broken land through dense artemisia.
4.00	Bottom of hollow, 100 ft. deep, course NW. Ascend.
8.00	Top of ridge bears NE. and SW. Descend.
18.00	Bottom of hollow, 200 ft. deep, course NE. Ascend.
26.00	Top of spur projects N. Descend.
32.00	Bottom of hollow, 175 ft. deep, course N.. Ascend.
39.99	Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
43.00	Top of spur projects NE. Descend.
60.00	Wagon road, bearing NE. and SW., in bottom of hollow, course NE., 300 ft. deep, Ascend.
75.00	Top of ridge bears NE. and SW. Descend.
79.93	The cor. of secs. 17-18-19 and 20. Land, mountainous. Soil; rocky, 3rd rate.

SUBDIVISIONS OF T.LL S., R.25 E.

CHAINS	
	No timber.
	Mountainous land and dense undergrowth on 79.98 chs.

	N.0°01'E., bet. secs. 17 and 18.
	Ascend over rocky land.
0.30	Top of spur projects E.
	Descend.
7.50	Bottom of hollow, 100 ft. deep, course E.
	Ascend.
14.20	Top of spur projects E. Descend.
23.50	Wagon road bears. SE. and SW.
29.00	Bottom of Evacuation Canon, 300 ft. deep, course NW.
	Ascend abruptly.
40.00	Set a sandstone, 18x10x8 ins., 12 ins. in the ground, for 1/4 sec. cor.; marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
44.75	Top of spur projects W.
	Descend.
63.00	Bottom of Evacuation Canon, 300 ft. deep, course NE.
	Begin abrupt ascent.
70.00	Top of spur projects E.
	Descend.
80.00	Set a sandstone, 24x10x3 ins., 18 ins. in the ground, for cor. of secs. 7-8-17 and 18, marked with 4 notches on the S. and 5 notches on the E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil: rocky, 3rd rate.
	No timber.
	Mountainous land on 80.00 chs.

	S.89°59'W. on a random line bet. secs. 7 and 18.
40.00	Set temp. $\frac{1}{4}$ sec. cor.

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS

- 79.86 Intersect Guide Meridian, 3 lks. N. of the cor. of secs.
7-12-13 and 18, heretofore described.
Thence I run
 N. $89^{\circ}58' E.$ on a true line
 bet. secs. 7 and 18.
Descend over rocky land through dense artemisia.
- 10.00 Bottom of hollow, 175 ft. deep, course NE.
Ascend.
- 19.00 Top of spur projects NE.
Descend.
- 25.00 Bottom of hollow, 200 ft. deep, course NE.
Ascend.
- 37.00 Top of spur projects NE.
Descend.
- 39.93 Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of
stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
- 42.50 Bottom of hollow, 100 ft. deep, course NE.
Ascend.
- 53.00 Top of spur projects NE.
Descend.
- 62.50 Bottom of hollow, 200 ft. deep, course N.
Ascend.
- 79.86 The cor. of secs. 7-8-17 and 18.
Land, mountainous.
Soil: rocky, 3rd rate.
No timber.
Mountainous land and dense undergrowth on 79.86 chs.

August 30, 1904.

SUBDIVISIONS OF T. 11 S., R. 25 E.

CHAINS

August 31: At 7 h. a.m., l.m.t., I set off $39^{\circ}52'N.$ on the lat. arc; $8^{\circ}42'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7-8-17 and 18.
 Thence I run
 $N.0^{\circ}01'E.$, bet. secs. 7 and 8.
 Descend over rocky land through dense artemisia.
 12.00 Bottom of Evacuation Canon, 350 ft. deep, course NW.
 Begin abrupt ascent.
 29.00 Top of spur projects W.
 Descend.
 40.00 In bottom of hollow, 100 ft. deep, course W.
 Set a sandstone, 18x6x4 ins., 12 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of
 stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 55.00 Top of spur projects W.
 Descend.
 63.00 Bottom of hollow, 100 ft. deep, course W.
 Ascend.
 70.00 Top of spur projects W.
 Descend.
 77.00 Bottom of hollow, 100 ft. deep, course W.
 Ascend.
 80.00 Set a sandstone, 18x12x5 ins., 12 ins. in the ground, for
 cor. of secs. 5-6-7 and 8, marked with 5 notches on the
 S. and E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$
 ft. high, W. of cor.
 Pits impracticable.
 Land, mountainous.
 Soil, rocky, 3rd rate.
 No timber.
 Mountainous land and dense undergrowth on 80.00 chs.

SUBDIVISIONS OF T. 11 S., R. 25 E.

CHAINS	S. 89° 58' W. on a random line, bet. secs. 6 and 7.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect Guide Meridian, 5 lks. N. of the cor. of secs. 1-6-7 and 12, heretofore described. Thence I run N. 89° 56' E., on a true line, Bet. secs. 6 and 7. Over rocky land, descend through dense artemisia.
4.00	Bottom of hollow, 100 ft. deep, course N.E. Ascend.
40.01	Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
41.25	Top of spur, projects N.E. Begin abrupt descent.
56.00	Bottom of Evacuation Canon, 500 ft. deep, course N.E. Begin abrupt ascent.
80.02	The cor. of secs. 5-6-7 and 8. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. No timber. Mountainous land and dense undergrowth on 80.02 chs.
	The north bdy. of the Tp. is the 2nd. Stan. Par. South, therefore I run N. 0° 01' E., on a true line, Bet. secs. 5 and 6.
	Over broken and rocky land, ascend abruptly through dense artemisia.
8.00	Top of spur, projects W. Descend.
10.00	Bottom of hollow, 75 ft. deep, course W. Ascend.

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS	
22.00	Top of ridge spur projects W. Descend.
29.00	Bottom of hollow, 100 ft. deep, course W. Ascend.
35.20	Top of spur projects W. Descend.
40.00	In bottom of hollow, 100 ft. deep, course W. Set a sandstone, 20x10x8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
43.00	Top of spur projects W. Descend.
50.00	Bottom of hollow, 50 ft. deep, course W. Ascend.
53.50	Top of ridge bears E. and W. Descend.
80.05	Intersect the Second Standard Parallel South, 8.05 chs. E. of the standard cor. of Tp. 10 S., Rs. 24 and 25 E., heretofore described. Set a sandstone, 28x10x8 ins., 21 ins. in the ground, for closing cor. of secs. 5 and 6, marked C C on S., with 5 grooves on the E. and 1 groove on the W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd rate. No timber. Mountainous land and dense undergrowth on 80.05 chs. August 31: At this cor., I set off $8^{\circ}37'N.$ on the decl. arc; and at 12 M.M., observe the sun on the meridian; the result- lat. is $39^{\circ}54'N.$

Subdivisions of T.11 S., R.25 E.

CHAINS

From the cor. of secs. 4-5-32 and 33, heretofore described on the S. Bdy. of the Tp., I run

N.0°01'E., bet. secs. 32 and 33.

Over rocky land, descend through scattering cedar and pinon timber.

14.00 Bottom of hollow, 200 ft. deep, course N.E.

Ascend.

40.00 Set a sandstone, 16x12x3 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which

A pinon, 12 ins. diam., bears N.28°30'W., 1.22 chs. dist., marked $\frac{1}{4}$ S 32 B T.

A pinon, 6 ins. diam., bears S.33°20'E., 61 lks. dist., marked $\frac{1}{4}$ S 33 B T.

48.00 Top of ridge, bears N.E. and S.W.

Descend.

54.00 Head of hollow, course N.E.

Ascend.

64.00 Top of ridge, bears N.E. and S.W.

Descend along top of spur, projecting N.

80.00 Set a sandstone, 16x10x6 ins., 11 ins. in the ground, for cor. of secs. 28-29-32 and 33, marked with 1 notch on S. and 4 notches on E. edges, from which

A pinon, 10 ins. diam., bears N.1°20'E., 36 lks. dist., marked T 11 S R 25 E S 28 B T.

A pinon, 11 ins. diam., bears S.23°30'W., 1.39 chs. dist., marked T 11 S R 25 E S 32 B T.

A pinon, 10 ins. diam., bears N.33°30'W., 75 lks. dist., marked T 11 S R 25 E S 29 B T.

No other trees within limits, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. rate.

Timber, cedar and pinon.

Subdivisions of T.11 S., R.25 E.

CHAINS	
	Mountainous land on 80.00 chs.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect N. and S. line, 3 lks. N. of the cor. of secs. 29-30-31 and 32.
	Thence I run N. $89^{\circ}59' E.$, on a true line, Bet. secs. 29 and 32.
	Descend over rocky land, through dense artemisia and scattering cedar and pinon timber.
4.00	Bottom of hollow, 150 ft. deep, course N.
	Ascend.
9.50	Top of ridge, bears N. and S.
	Descend.
13.00	Bottom of ravine, 200 ft. deep, course N.
	Begin abrupt ascent.
16.00	Top of ridge, bears N. and S.
	Descend.
19.00	Bottom of ravine, 150 ft. deep, course N.
	Ascend.
25.00	Top of ridge, bears N. and S.
	Descend.
33.00	Bottom of hollow, 200 ft. deep, course N.
	Ascend.
39.97	Set a sandstone, 18x10x3 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which A pinon, 10 ins. diam., bears S. $5^{\circ} E.$, 41 lks. dist., marked $\frac{1}{4} S 32 B T.$
	A pinon, 8 ins. diam., bears N. $10^{\circ} E.$, 59 lks. dist., marked $\frac{1}{4} S 29 B T.$
47.00	Top of ridge, bears N. and S.
	Descend.
64.00	Bottom of hollow, 400 ft. deep, course N.E.

Subdivisions of T.11 S., R.25 E.

CHAINS	Begin abrupt ascent.
79.94	On top of spur, projecting N. The cor. of secs. 28-29-32 and 33. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. Timber, cedar and pinon. Mountainous land and dense undergrowth on 79.94 chs.
	N.0° .01'E., bet. secs. 28 and 29.
	Descend over rocky land, along top of spur projecting north, through scattering cedar and pinon timber.
2.00	Leave spur projecting N.E. Descend.
8.50	Bottom of hollow, 100 ft. deep, course N.W. Ascend.
13.50	Top of spur, projects W. Descend.
40.00	Set a sandstone, 16x8x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which A pinon, 12 ins. diam., bears N.57°30'E., 87 lks. dist., marked $\frac{1}{4}$ S 28 B T. A pinon, 10 ins. diam., bears S.15°30'W., 1.03 chs. dist., marked $\frac{1}{4}$ S 29 B T.
53.00	Bottom of hollow, 600 ft. deep, course N.E. Begin abrupt ascent.
72.00	Top of spur, projects E. Leave timber. Descend.
80.00	Set a sandstone, 18x9x8 ins., 12 ins. in the ground, for cor. of secs. 20-21-28 and 29, marked with 2 notches on S. and 4 notches on E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd. and 4th. rate.

Subdivisions of T.11 S., R.25 E.

CHAINS

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

August 31, 1904.

September 1: At 7 a.m., l.m.t., I set off $39^{\circ}50'N.$ on lat. arc, $8^{\circ}21'N.$ on decl. arc, and determine a meridian with the solar, at the cor. of secs. 20-21-28 and 29.

Thence I run

 $S.89^{\circ}59'W.$, on a random line, bet. secs. 20 and 29.40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.92 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 19-20-29 and 30.

Thence I run

 $N.89^{\circ}57'E.$, on a true line,

Bet. secs. 20 and 29.

Over rocky land ascend through scattering cedar and pinon timber.

4.00 Top of ridge, bears N. and S.

Descend.

9.00 Bottom of hollow, 150 ft. deep, course N.

Ascend.

17.00 Top of ridge, bears N. and S.

Descend.

24.00 Bottom of hollow, 400 ft. deep, course N.

Begin abrupt ascent.

34.00 Top of ridge, bears N. and S.

Descend.

39.96 Set a sandstone, 15x8x6 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

46.00 Bottom of hollow, 300 ft. deep, course N.

Begin abrupt ascent.

59.50 Top of ridge, bears N. and S.

Subdivisions of T.11 S., R.25 E.

CHAINS	
	Descend.
63.00	Bottom of hollow, 300 ft. deep, course N.
	Begin abrupt ascent.
72.00	Top of spur, projects N.
	Descend.
79.92	The cor. of secs. 20-21-28 and 29 Land, mountainous. Soil, rocky, 3rd. and 4th. rate. Timber, cedar and pinon. Mountainous land on 79.92 chs.
	N. 0° 01' E., bet. secs. 20 and 21.
	Over rocky and broken land, descend abruptly.
30.00	Enter bottom of Evacuation Canon, course N.W.
	Over level land, through dense greasewood brush.
34.00	Wagon road, N.W. and S.E. in bottom of wash, 20 lks. wide 10 ft. deep, in the bottom of Evacuation Canon, 600 ft. deep, course N.W.
40.00	Set a sandstone, 14x12x6 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base. $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
40.25	Same wash, 20 lks. wide, 10 ft. deep, course N.E.
58.00	Same wash, 20 lks. wide, 10 ft. deep, course N.W.
62.00	Leave bottom of canon, bears N.W. and S.E. Begin abrupt ascent over broken and rocky land.
80.00	Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for cor. of secs. 16-17-20 and 21, marked with 3 notches on the S. and 4 notches on the E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. on 48.00 chs. balance, bottom land, 2nd. rate.

Subdivisions of T. 11 S., R. 25 E.

CHAINS	
	No timber.
	Mountainous land or dense undergrowth 80.00 chs.
	<u>S. 89° 57' W. on a random line bet. secs. 17 and 20.</u>
40.00	Set temp. $\frac{1}{4}$ sec. cor.,
80.04	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 17-18-19 and 20.
	Thence I run S. 89° 59' E. on a true line bet. secs. 17 and 20.
	Descend abruptly over rocky land, through dense artemisia.
12.00	Bottom of Evacuation Canon, 400 ft. deep, course N. Wagon road bears N. and S. Begin abrupt ascent.
30.00	Top of spur projects NW.
	Descend.
38.00	Head of hollow, course N. W.
	Ascend.
40.02	Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor.; marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
44.00	Top of spur projects NW. Descend.
50.00	Head of hollow, course NW.
	Ascend.
61.00	Top of ridge bears NE. and SW.
	Descend.
75.00	Head of hollow, course S.
	Ascend.
78.00	Point of spur projects S.
	Descend.
80.04	The cor. of secs. 16-17-20 and 21. Land, mountainous. Soil; rocky, 3rd rate. No timber.

SUBDIVISIONS OF T. 11 S., R. 25 E.

CHAINS	
	Mountainous land and dense undergrowth on 80.04 chs.
	N. $0^{\circ}01' E.$, bet. secs. 16 and 17.
	Ascend over rough and broken land through dense artemisia.
9.50	Top of ridge bears E. and W.
	Descend.
27.00	Bottom of hollow, 200 ft. deep, course NW.
	Begin abrupt ascent.
30.00	Top of spur projects W.
	Descend.
40.00	Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
76.00	Bottom of ravine, 200 ft. deep, course W.
	Ascend.
80.00	Set a sandstone, 18x9x5 ins., 12 ins. in the ground, for cor. of secs. 8-9-16 and 17, marked with 4 notches on the S. and E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil: rocky, 3rd rate.
	No timber.
	Mountainous land and dense undergrowth on 80.00 chs.
	Sept. 1: At this cor., I set off $8^{\circ}15' N.$ on the decl. arc; and at 12 M., observe the sun on the meridian; the resulting lat. is $39^{\circ}52' N.$

	N. $89^{\circ}59' W.$ on a random line bet. secs. 8 and 17.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
30.06	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 7-8-17 and 18.
	Thence I run

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS	S.89°57'E.on a true line bet.secs.8 and 17.
	Ascend abruptly over rocky land through dense artemisia.
0.20	Top of spur projects N.
	Begin abrupt descent.
12.00	Bottom of Evacuation Canon, 400 ft. deep, course NW.
	Begin abrupt ascent.
19.50	Top of spur projects S.
	Descend.
36.50	Bottom of ravine, 300 ft. deep, course SW.
	Begin abrupt ascent.
40.03	Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
46.00	Top of spur projects SW.
	Descend.
67.00	Bottom of ravine, 150 ft. deep, course SW..
	Ascend.
80.06	The cor.of secs.8-9-16 and 17.
	Land, mountainous.
	Soil; rocky, 3rd and 4th rate.
	No timber.
	Mountainous land and dense undergrowth on 80.06 chs.
	 N.0°01'E., bet.secs.8 and 9. Ascend over rocky land through dense artemisia.
12.00	Top of ridge bears E. and W.
	Descend.
27.00	Bottom of hollow, 150 ft. deep, course W..
	Ascend.
30.00	Top of spur projects W.
	Begin abrupt descent.
31.50	Bottom of hollow, 50 ft. deep, course W..
	Ascend.
33.50	Top of ridge bears E. and W.
	Descend.

SUBDIVISIONS OF T. 11 S., R. 25 E.

CHAINS	
40.00	Set a sandstone, 14x8x6 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
53.00	Bottom of hollow, 100 ft. deep, course NW. Ascend.
72.00	Top of spur projects W. Descend.
80.00	Set a sandstone, 20x10x3 ins., 15 ins. in the ground, for cor. of secs. 4-5-8 and 9, marked with 5 notches on the S. and 4 notches on the E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil: rocky, 3rd rate. No timber. Mountainous land and dense undergrowth on 80.00 chs.
	N. $89^{\circ}57'$ W., on a random line bet. secs. 5 and 8.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N. and S. line, 12 lks. N. of the cor. of secs. 5-6-7 and 8. Thence I run N. $89^{\circ}58'$ E. on a true line bet. secs. 5 and 8.
	Ascend over rocky land through dense artemisia.
21.00	Top of ridge bears N. and S. Begin abrupt descent.
32.00	Bottom of hollow, 150 ft. deep, course N. Ascend.
39.98	Set a sandstone, 20x9x7 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

SUBDIVISIONS OF T. 11 S., R. 25 E.

CHAINS	
56.00	Top of ridge bears NE. and SW. intersecting at 56 chs. Descend.
73.00	Bottom of hollow, 100 ft. deep, course NE. Ascend.
79.96	The cor. of secs. 4-5-8 and 9. Land, mountainous. Soil; rocky, 3rd rate. No timber. Mountainous land and dense undergrowth on 79.96 chs.
	Knowing N. bdy. is 2nd. Stan. Par. South, I run N. 0° 01' E., bet. secs. 4 and 5.
	Descend over broken land through dense artemisia.
12.00	Bottom of ravine, 75 ft. deep, course NE. Ascend.
35.00	Top of spur projects NE. Descend.
40.00	Set a sandstone, 14x8x6 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
56.00	Bottom of hollow, 100 ft. deep, course NE. Begin abrupt ascent..
58.00	Top of spur projects NE. Begin abrupt descent..
65.00	Bottom of hollow, 200 ft. deep, course W. Begin abrupt ascent..
70.00	Top of spur projects W. Descend.
76.00	Bottom of hollow, 100 ft. deep, course W. Ascend.
80.08	Top of spur projects SW. Intersect 2nd standard Parallel South, 8.04 chs. E. of the standard cor. of secs. 31 and 32, heretofore described, Set a corner sandstone, 18x12x12 ins., 12 ins. in the

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS

ground, for closing cor. to secs. 4 and 5, marked C C on S., with 2 grooves on the W. and 4 grooves on the E. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.

Land, mountainous.

Soil: rocky, 3rd rate.

No timber.

Mountainous land and dense undergrowth on 80.08 chs.

Sept. 1, 1904.

Sept. 2, 1904: At 7h a.m., l.m.t., I set off $39^{\circ}49'N.$ on the lat. arc; $7^{\circ}59'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3-4-33 and 34, heretofore described on the S. bdy. of the township. Thence I run N. $0^{\circ}02'E.$, bet. secs. 33 and 34.

Ascend over rocky land through dense artemisia and scattering cedar and pinon timber.

39.00 Top of spur projects NE..

Descend.

40.00 Set a sandstone, 16x11x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

43.00 Bottom of hollow, 200 ft. deep, course NE.

Ascend.

63.00 Top of ridge bears NE. and SW..

Descend.

70.00 Bottom of hollow, 200 ft. deep, course NE.

Ascend.

74.00 Top of ridge bears NE. and SW.

Descend.

80.00 Set a sandstone, 16x12x4 ins., 11 ins. in the ground, for cor. of secs. 27-28-33 and 34, marked with 1 notch on the S. and 3 notches on the E. edge; from which

SUBDIVISIONS OF T. 11 S., R. 25 E.

CHAINS	
	A pinon, 4 ins. diam., bears N. 59° E., 33 lks. dist., marked T. 11 S. R. 25 E. S. 27 B. T.
	A pinon, 14 ins. diam., bears S. 59° E., 1.19 chs. dist., marked T. 11 S. R. 25 E. S. 34 B. T.
	A pinon, 14 ins. diam., bears S. 87° W., 14 lks. dist., marked T. 11 S. R. 25 E. S. 33 B. T.
	A pinon, 15 ins. diam., bears N. 24° W., 44 lks. dist., marked T. 11 S. R. 25 E. S. 28 B. T. Land, mountainous.
	Soil; rocky, 3rd rate.
	Timber, cedar and pinon.
	Mountainous land and dense undergrowth on 80.00 chs.
	West on a random line bet. secs. 28 and 33.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 28-29-32 and 33.
	Thence I run
	S. 89° 58' E. on a true line
	bet. secs. 23 and 33.
	Descend over rocky land through scattering cedar and pinon timber and dense artemisia.
7.50	Bottom of hollow, 150 ft. deep, course NE.
	Ascend.
17.50	Top of spur projects N.
	Descend.
40.03	Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
56.00	Bottom of hollow, 150 ft. deep, course NE.
	Ascend.
63.00	Top of spur projects NE.
	Descend.
67.00	Bottom of hollow, 150 ft. deep, course N.
	Ascend.

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS	
80.06	The cor. of secs. 27, 28, 33 and 34. Land, mountainous. Soil; rocky, 3rd rate. Timber, cedar and pinon. Mountainous land and dense undergrowth on 80.06 chs. N. 0° 02' E., bet. secs. 27 and 28. Descend over rocky land through scattering cedar and pinon timber, and dense artemisia.
18.00	Wagon road bears NW. and SE.; from Vernal to Dragon.
38.15	Bottom of Evacuation Canon, 400 ft. deep, course NW. Begin abrupt ascent.
40.00	Set a sandstone, 16x8x6 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
46.00	Top of spur projects W. Descend.
54.00	Bottom of hollow, 100 ft. deep, course W. Ascend.
67.00	Top of spur projects W. Descend.
80.00	Set a sandstone, 20x9x8 ins., 15 ins. in the ground, for cor. of secs. 21-22-27 and 28, marked with 2 notches on the S. and 3 notches on the E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil; rocky, 3rd rate. Timber, cedar and pinon. Mountainous land and dense undergrowth on 80.00 chs.

SUBDIVISIONS OF T.11 S.R. 25 E.

Chains N. $89^{\circ}58'W$.on a random line bet.secs.21 and 28
40.00 Set temp. $\frac{1}{4}$ sec.cor.
80.04 Intersect N. and S.line, 7 lks.N.of the cor.of secs.
20,21,28, and 29.
Thence I run
N. $89^{\circ}58'E$.on a true line bet.secs.21 and 28
Descend over rocky land;through dense artemisia.
12.00 Junction of Park Canon 300 ft.deep course W., with
Evacuation Canon 350 ft.deep course N.
Wagon road in bottom of Evacuation Canon bears N.
and S. Ascend along bottom of Park Canon. Wagon
road from Vernal to Dragon bears E.and S.
40.02 Set a sandstone 16x9x6 ins.,11 ins.in the ground
for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{2}$ on N.face; and raise a
mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.
Pits impracticable.
74.00 Leave bottom of Park Canon, course SW.to W.; wagon
road follows canon.
Ascend abruptly.
80.04 The cor.of secs. 21,22,27, and 28.
Land mountainous.
Soil rocky; 3d rate. No timber.
Mountainous land and dense undergrowth 80.04 chs.
Sept.2: At this cor.I set off $7^{\circ}53'N$. on the decl.
arc; and at 12'M. observe the sun on the meridian;
the resulting lat.is $39^{\circ}50'N$.

N. $0^{\circ}02'E$.bet.secs.21 and 22
Descend abruptly over rough broken land;through dense
artemisia.
2.50 Bottom of Park Canon, 300 ft.deep, course NW.
Begin abrupt ascent.
12.00 Top of spur projects SW. Descend abruptly.
15.00 Bottom of canon 300 ft.deep, course SW.
Wagon road in bottom of canon,from Vernal to Dragon,

SUBDIVISIONS OF T.11 S.R. 25 E.

Chains	bears NE. and SW. Leave bottom of canon bearing NE. and SW. Begin abrupt ascent over rocky land.
40.00	Set a sandstone 20x8x6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W.of cor. Pits impracticable.
62.00	Top of abrupt ascent bears NE. and SW. Begin gradual ascent.
80.00	Set a sandstone 24x12x10 ins., 18 ins. in the ground, for cor.of secs. 15,16,21, and 22, marked 11 S on NE., and 25 E on SE. face, with 3 notches on the S.and E.edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W.of cor.Pits impracticable. Land mountainous. Soil rocky; 3d and 4th rate. No timber. Mountainous land and dense undergrowth on 80.00 chs.

	S.89°59'W.on a random line betsecs.16 and 21
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.92	Intersect N. and S.line 3 lks.N.of the cor.of secs. 16,17,20, and 21. Thence I run
	N.89°57'E.on a true line betsecs.16 and 21, Descend over rough and rocky land; through dense artemisia.
4.00	Bottom of ravine, 100 ft.deep, course S. Ascend.
21.00	Top of spur projects S. Descend.
59.30	Bottom of hollow, 100 ft.deep, course S. Ascend.

SUBDIVISIONS OF T. 11 S., R. 25 E.

CHAINS

- 39.96 Set a sandstone, 20x9x5 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 44.00 Top of spur projects S. Descend.
- 59.00 Bottom of hollow, 100 ft. deep, course S. Ascend.
- 62.00 Top of ridge bears N. and S. Descend.
- 79.92 The cor. of secs. 15-16-21 and 22. Land, mountainous. Soil: rocky, 3rd and 4th rate. No timber. Mountainous land and dense undergrowth on 79.92 chs.
-
- N. 0°02' E., bet. secs. 15 and 16.
- Ascend over rocky land through dense artemisia.
- 12.00 Top of ridge bears E. and W. Descend.
- 22.00 Bottom of hollow, 100 ft. deep, course W. Ascend.
- 40.00 Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
- 43.00 Top of ridge bears E. and W. Descend.
- 72.00 Bottom of hollow, 100 ft. deep, course NW. Ascend.
- 80.00 Set a sandstone, 20x10x3 ins., 15 ins. in the ground, for cor. of secs. 9-10-15 and 16, marked with 4 notches on the S. and 3 notches on the E. edge; and raise a mound of

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS

stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil: rocky, 3rd rate.

No timber.

Mountainous land and dense undergrowth on .80.00 'chs.

S. $89^{\circ}57'$ W. on a random line bet. secs. 9 and 16.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.06 Intersect N. and S. line, 9 lks. S. of the cor. of secs. 8-9-16 and 17.

Thence I run

S. $89^{\circ}59'$ E. on a true line

bet. secs. 9 and 16.

Ascend over rocky land through dense artemisia.

5.00 Top of spur projects S.

Descend.

26.00 Bottom of hollow, 100 ft. deep, course SW.

Ascend.

36.00 Top of spur projects SW.

Descend.

40.03 Set a sandstone, 18x9x4 ins., 13 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

43.00 Bottom of hollow, 150 ft. deep, course SW.

Ascend.

54.00 Top of spur projects NW.

Descend.

65.00 Bottom of hollow, 150 ft. deep, course NE.

Ascend.

80.06 The cor. of secs. 9-10-15 and 16.

Land, mountainous.

Soil: rocky, 3d. rate.

No timber.

SUBDIVISIONS OF T.11 S.R. 25 E.

Chains. Mountainous land and dense undergrowth on 80.06 chs.
Sept. 2, 1904.

Sept. 3: At 7 h a.m.l.m.t. I set off $39^{\circ}52'N.$ on the lat. arc; $7^{\circ}37'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9, 10, 15, and 16.

Thence I run

$N.0^{\circ}02'E.$ bet. secs. 9 and 10

Ascend over rocky land; through dense artemisia.

12.50 Top of ridge bears E. and W.; descend.

40.00 Set a sandstone 18x9x5 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.

40.50 Bottom of hollow 150 ft. deep, course NE.; ascend.

58.50 Top of ridge bears E. and W.; descend.

67.00 Bottom of hollow, 100 ft. deep, course NW.

Ascend along E. side of hollow.

80.00 Set a sandstone 18x9x8 ins., 12 ins. in the ground, for cor. of secs. 3, 4, 9, and 10, marked with 3 notches on E. and 5 notches on S. edge; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.

Land mountainous.

Soil rocky; 3rd rate.

No timber.

Mountainous land and dense undergrowth on 80.00 chs.

$N.89^{\circ}59'W.$ on a random line bet. secs. 4 and 9

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.02 Intersect N. and S. line 9 lks. N. of the cor. of secs. 4, 5, 8 and 9. Thence I run

$N.89^{\circ}57'E.$ on a true line bet. secs. 4 and 9

Ascend over rough broken country; through dense artemisia.

1.25 Top of spur projects N.; descend.

5.50 Bottom of ravine 100 ft. deep, course N.; ascend.

8.00 Top of spur projects N.; descend.

10.50 Bottom of ravine 100 ft. deep, course N.; ascend.

SUBDIVISIONS OF T.11 S., R. 25 E

Chains.

14.00 Top of spur projects N.; descend.

18.50 Bottom of ravine 150 ft. deep, course N.; ascend.

28.50 Top of spur projects N.; descend.

31.00 Bottom of ravine 150 ft. deep, course N.; ascend.

40.01 Set a sandstone 18x10x6 ins., 12 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N.of cor.Pits impracticable.

41.000 Top of spur projects N.; descend.

45.00 Bottom of ravine 150 ft. deep, course N.; ascend.

54.00 Top of spur projects N.; descend.

69.00 Bottom of hollow 100 ft. deep, course N.; ascend.

71.00 Top of spur projects N.; descend.

79.50 Bottom of gulch 100 ft. deep, course N.; ascend.

80.02 The cor.of secs.3,4,9, and 10.
Land mountainous.
Soil rocky, 3d rate.
No timber.
Mountainous land and dense undergrowth on 80.02 chs.

Knowing the N.bdy.of the Tp. is the 2d Standard Parallel South I run N.0°02'E.on true line betsecs.3 and 4
Descend over rocky land;through dense artemisia.

11.00 Bottom of hollow 200 ft. deep, course W.;ascend.

19.00 Top of spur projects W.; descend.

25.00 Bottom of hollow 100 ft. deep, course W.; ascend.

40.00 Set a sandstone 18x10x8 ins., 12 ins. in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W.of cor.Pits impracticable.

40.50 Top of ridge bears NW. and E.; descend.

72.00 Bottom of hollow 100 ft. deep, course NW.; ascend.

80.04 Intersect 2nd Standard Parallel South 7.97 chs.E.of the standard cor.of secs.32 and 33, heretofore described.
Set a sandstone 26x15x3 ins., 20 ins. in the ground,for closing cor.to secs.3 and 4, marked C C on S., with 3 grooves on E. and W.faces; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high S.of cor.Pits impracticable.

SUBDIVISIONS OF T.11 S., R. 25 E.

Chains	Land mountainous. Soil rocky 3d rate. No timber. Mountainous land and dense undergrowth on 80.04 chs. Sept. 3: At this cor. I set off $7^{\circ}31'N.$ on the decl. arc; and at 11 h.59 m.a.m.l.m.t., observe the sun on the meridian; the resulting lat. is $39^{\circ}54'N.$ From the cor. of secs. 2, 3, 34, and 35 on S.bdy.of Tp., heretofore described, I run $N.0^{\circ}03'E.$ bet. secs. 34 and 35 Descend through undergrowth. Wagon road from Vernal to Dragon bears NW. and SE. Bottom of Evacuation Canon, 400 ft. deep, course NW. Begin abrupt ascent; enter scattering pinon pine timber. Top of spur projects SW.; descend. Bottom of hollow, 250 ft. deep, course NW. Begin abrupt ascent. Set a sandstone 16x8x6 ins., 11 ins. in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which A pinon 12 ins. diam. bears $N.89^{\circ}E.72$ lks.dist. marked $\frac{1}{4}$ S 35 B T A pinon 6 ins. diam. bears $N.89^{\circ}W.54$ lks.dist. marked $\frac{1}{4}$ S 34 B T Top of spur projects W. Begin abrupt descent; Leave timber. Bottom of abrupt descent bears NE. and SW. Begin gradual descent. Bottom of hollow, 300 ft. deep, course SW. Begin gradual ascent. Set a sandstone 16x11x5 ins., 11 ins. in the ground, for cor.of secs. 26, 27, 34, and 35, marked with 1 notch on the S. and 2 notches on the E.edge; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W.of cor. Pits impracticable. Land mountainous. Soil rocky; 3d rate.
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SUBDIVISIONS OF T 11 S., R. 25 E

- Chains. Soil rocky; 3d rate.
Timber cedar and pinon pine.
Mountainous land and dense undergrowth on 80.00 chs.
-
- West on a random line bet. secs. 27 and 34.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.90 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 27, 28, 33, and 34. Thence I run
N. $89^{\circ}59' E.$ on a true line bet. secs. 27 and 34,
Over rocky land; ascend through scattering cedar and
pinon timber.
4.00 Top of spur projects N.; descend.
12.00 Bottom of hollow, 100 ft. deep, course N.; ascend.
17.00 Top of spur projects N.; descend.
36.00 Road from Dragon to Vernal bears NW. and SE.
39.95 Set a sandstone 16x8x4 ins., 11 ins. in the ground, for $\frac{1}{4}$
sec. cor., marked $\frac{1}{2}$ on N. face; and raise a mound of stone
2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
43.00 Bottom of Evacuation Canon, 500 ft. deep, course NW.
Ascend.
74.00 Top of spur projects S. Descend.
79.90 The cor. of secs. 26, 27, 34, and 35.
Land mountainous.
Soil rocky; 3d rate.
Timber cedar and pinon.
Mountainous land on 79.90 chs.
-
- N. $0^{\circ}03' E.$ bet. secs. 26 and 27
Ascend abruptly over broken and rocky land; through
scattering cedar and pinon timber.
6.00 Top of spur projects W. Begin abrupt descent.
25.00 Bottom of hollow, 300 ft. deep, course W. Begin abrupt ascent
40.00 Set a sandstone 18x14x4 ins., 12 ins. in the ground, for $\frac{1}{4}$
sec. cor., marked $\frac{1}{2}$ on W. face; and raise a mound of stone

Subdivisions of T. 11 S., R. 25 E.

CHAINS

- 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 42.00 Top of ridge, bears E. and W.
 Descend.
 80.00 Set a sandstone, 20x9x5 ins., 15 ins. in the ground, for cor. of secs. 22-23-26 and 27, marked with 2 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 Land, mountainous.
 Soil, rocky, 3rd. rate.
 Timber, cedar and pinon.
 Mountainous land on 80.00 chs.

September 3, 1904.

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- Sept. 4 : At 7 a.m., l.m.t., I set off $39^{\circ}50'N.$ on lat.arc, $7^{\circ}15'N.$ on decl.arc, and determine a meridian with the solar, at the cor. of secs. 22-23-26 and 27.
 Thence I run
 $S.89^{\circ}59'W.$, on a random line, bet. secs. 22 and 27.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 79.94 Intersect N. and S. line, 15 links N. of the cor. of secs. 21-22-27 and 28.
 Thence I run
 $N.89^{\circ}57'E.$, on a true line,
 Bet. secs. 22 and 27.
 Descend over rocky land, through dense artemisia and scattering cedar and pinon timber.
 2.00 Bottom of Park Canon, 200 ft. deep, course N.W.
 Begin abrupt ascent.
 11.00 Top of rocky spur, projects S..
 Begin abrupt descent.
 20.00 Bottom of Park Canon, 200 ft. deep, course S.W.
 Begin abrupt ascent.

Subdivisions of T. 11 S., R. 25 E.

CHAINS

- 39.97 Set a sandstone, 20x9x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
- 43.00 Top of spur, projects N.
Descend.
- 56.00 Bottom of hollow, 200 ft. deep, course N.
Ascend.
- 68.00 Top of spur, projects N.
Descend.
- 79.94 The cor. of secs. 22-23-26 and 27.
Land, mountainous.
Soil, rocky, 3rd. and 4th. rate.
Timber, cedar and pinon.
Mountainous land and dense undergrowth 79.94 chs.

N. 0°03' E., bet. secs. 22 and 23.

- Over rocky land, descend abruptly through dense artemisia.
- 29.00 Bottom of Park Canon, 300 ft. deep, course S. W.
Begin abrupt ascent.
- 40.00 Set a sandstone, 18x8x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
- 60.00 Top of ridge, bears N.E. and S.W.
Descend.
- 80.00 Set a sandstone, 16x10x6 ins., 11 ins. in the ground, for cor. of secs. 14-15-22 and 23, marked with 3 notches on S. and 3 notches on E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil, rocky, 3rd. and 4th. rate.

Subdivisions of T.11 S.R.25 E.

CHAINS	No timber. Mountainous land on 80.00 chs.
	S.89°57'W., on a random line, bet. secs. 15. and 22.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 15-16-21 and 22. Thence I run N.89°59'E., on a true line, Bet. secs. 15 and 22.
	Descend over rocky and broken land, through dense artemisia.
12.75	Wagon road from Dragon to Vernal, bears N.E. and S.W. in bottom of hollow, 200 ft. deep, course S.W. Begin abrupt ascent.
19.00	Top of spur, projects S.W. Ascend.
25.75	Bottom of hollow, 200 ft. deep, course S.W. Ascend.
36.00	Top of spur, projects S. Descend.
39.50	Bottom of hollow, 150 ft. deep, course S.W. Ascend.
40.00	Set a sandstone, 20x10x3 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
57.00	Top of spur, projects S. Descend.
75.00	Bottom of hollow, 200 ft. deep, course S.W. Ascend.
80.00	The cor. of secs. 14-15-22 and 23. Land, mountainous. Soil, 3rd. and 4th. rate.

Subdivisions of T.11 S., R.25 E.

CHAINS

No timber.

Mountainous land on 80.00 chs.

N.0°03'E., bet. secs. 14 and 15.

Over broken and rocky land, descend through dense artemisia.

3.50 Bottom of hollow, 150 ft. deep, course S.W.

Ascend.

12.25 Top of ridge, bears E. and W.

Descend.

30.50 Bottom of hollow, 300 ft. deep, course S.W.

Ascend.

40.00 Set a sandstone, 20x10x5 ins., 15 ins. in the ground, for $\frac{1}{4}$ sed.cor., marked $\frac{1}{2}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

50.50 Top of spur, projects W.

Descend.

80.00 Bottom of hollow, 150 ft. deep, course S.W.

Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for cor. of secs. 10-11-14 and 15, marked with 4 notches on the S. and 2 notches on the E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. and 4th. rate.

No timber.

Mountainous land on 80.00 chs.

Sept. 4: At this cor. I set off 7°09' N. on decl. arc, and at 11h.59m., a.m., 1.m.t., observe the sun on the meridian, the resulting lat. is 39°52' N.

Subdivisions of T.11 S.4, R.25 E.10 and 11.

CHAINS

- S.89°59'W., on a random line, bet. secs.10 and 15.
Set temp. $\frac{1}{4}$ sec.cor.
Intersect N. and S.line, 5 lks.S. of the cor.of secs. 9-10-15 and 16.
Thence I run.
S.89°59'E., on a true line,
Bet. secs.10 and 15.
Ascend over rocky and broken land, through dense artemisia.
Top of spur, projects S.
Descend.
Bottom of hollow, 150 ft. deep, course S.W.
Ascend.
Set a sandstone, 18x9x5 ins., 12 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face, and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, N.of cor.
Pits impracticable.
Road from Dragon to Vernal, bears N. and S.
Top of ridge, bears N.E. and S.W.
Descend.
Bottom of hollow, 150 ft. deep, course S.W.
The cor.of secs.10-11-14 and 15.
Land, mountainous.
Soil, rocky, 3rd.and 4th.rate.
No timber.
Mountainous land on 79.94 chs.

N.0°03'E., bet.secs.10 and 11.
Over rocky land, ascend through dense artemisia.
Top of ridge, bears N.E. and S.W.
Descend.
Bottom of hollow, 150 ft. deep, course S.W.
Ascend.
Top of spur, projects W.
Descend.

Subdivisions of T.11 S., R.25 E.

CHAINS	
40.00	Set a sandstone, 16x11x5 ins, 11 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
48.00	Bottom of hollow, 100 ft. deep, course W. Ascend.
53.00	Top of spur, projects W. Descend.
58.00	Bottom of hollow, 150 ft. deep, course S.W. Ascend.
62.00	Top of spur, projects S.W. Descend.
68.00	Bottom of hollow, 150 ft. deep, course S.W. Ascend.
76.00	Top of ridge, bears E. and W. Descend.
80.00	Set a sandstone, 16x12x4 ins., 11 ins. in the ground, for cor.of secs. 2-3-10 and 11, marked with 5 notches on S. and 2 notches on E.edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd. rate. No timber. Mountainous land on 80.00 chs.
	N. $89^{\circ}59'W.$, on a random line, bet.secs. 3 and 10.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.92	Intersect N. and S. line, 7 lks.S. of the cor.of secs. 3-4-9 and 10. Thence I run S. $89^{\circ}56'E.$, on a true line, Bet.secs. 3 and 10. Ascend over rocky and broken land, through dense artemisia.

(3)

Subdivisions of T.11 S., R.25 E.

CHAINS	
15.00	Top of spur, projects N. Descend.
28.00	Bottom of hollow, 150 ft. deep, course N. Ascend.
36.00	Top of spur, projects N. Descend.
39.96	Set a sandstone, 16x9x8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face, and raise a mound of stone, 2 ft. base; $1\frac{1}{2}$ ft. high; N.of cor. Pits impracticable.
42.00	Bottom of hollow, 100 ft. deep, course N.W. Ascend.
43.00	Road, from Dragon to Vernal, bears N. and S.
48.00	Top of spur, projects N.E. Descend.
54.00	Bottom of hollow, 100 ft. deep, course N.W. Ascend.
60.00	Top of spur, projects S. Descend.
70.00	Bottom of hollow, 100 ft. deep, course S.W. Ascend.
79.92	The cor. of secs. 2-3-10 and 11. Land, mountainous. Soil, rocky, 3rd. rate. No timber. Mountainous land on 79.92 chs.
	The 2nd. Stan. Par. South being the N.Bdy. of the Tp., I run N.0°03'E.; on a true line, Bet. secs. 2 and 3. Descend over rocky land, through dense artemisia.
5.00	Bottom of hollow, 150 ft. deep, course S.W. Ascend.
12.00	Top of spur, projects S.W.

Subdivisions of T. 11 S., R. 25 E.

CHAINS	Descend.
36.00	Bottom of hollow, 75 ft. deep, course S.W.
	Ascend.
40.00	Top of spur, projects W. Set a sandstone, 16x8x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
45.00	Bottom of hollow, 100 ft. deep, course S.W.
	Ascend.
48.00	Top of ridge, bears N.W. and S.E.
	Descend.
54.00	Bottom of hollow, 150 ft. deep, course N.W.
	Ascend.
67.00	Top of spur, projects W.
	Descend.
74.00	Bottom of hollow, 200 ft. deep, course S.W.
	Begin abrupt ascent.
80.10	Intersect 2nd. Standard Parallel South, 7.95 chs. E. of the Stan. Cor. of secs. 33 and 34, heretofore described. Set a sandstone, 20x8x8 ins., 15 ins. in the ground, for closing cor. to secs. 2 and 3, marked C C on S., with 2 grooves on E. and 4 grooves on W. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd. rate. No timber. Mountainous land on 80.10 chs.

September 4, 1904.

SUBDIVISIONS OF T. 11 S., R. 25 E.

CHAINS

Sept. 5: At 7h a.m., l.m.t., I set off $39^{\circ}49'N.$ on the lat. arc; $6^{\circ}53'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1-2-35 and 36, heretofore described on the S.bdy. of the Tp.

Thence I run

$N.0^{\circ}03'E.$, bet. secs. 35 and 36.

Ascend over rocky land through scattering cedar and pinon timber, through dense artemisia.

3.00 Top of spur projects SW.

Descend.

13.00 Bottom of hollow, 150 ft. deep, course SW.

Ascend.

40.00 Set a sandstone, 18x8x8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

45.00 Top of ridge bears E. and W.

Descend.

80.00 Set a sandstone, 20x10x6 ins., 15 ins. in the ground, for cor. of secs. 25-26-35 and 36, marked with 1 notch on the S. and E. edges; from which

A cedar, 8 ins. diam., bears $N.57^{\circ}W.$, 54 lks. dist., marked T 11 S R 25 E S 36 B T.

A cedar, 6 ins. diam., bears $S.61^{\circ}30'W.$, 78 lks. dist., marked T 11 S R 25 E S 35 B T.

No other trees within limits; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil; rocky, 3rd rate.

Timber cedar and pinon.

Mountainous land and dense undergrowth on 80.00 chs.

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS

West on a random line bet. secs. 26 and 35.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.04 Intersect N. and S. line, 5 lks. S. of the cor. of secs.
26-27-34 and 35.

Thence I run

S. $89^{\circ}58'$ E. on a true line

bet. secs. 26 and 35.

Ascend over rough and rocky land through scattering cedar and pinon timber and dense artemisia.

37.00 Top of perpendicular cliff, 100 ft. high, bearing N. and S.

40.02 Set a sandstone, 16x9x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

50.00 Top of ridge bears N. and S.

Descend.

67.00 Bottom of ravine, 200 ft. deep, course N.

Begin abrupt ascent.

73.00 Top of spur projects N.

Descend.

80.04 The cor. of secs. 25-26-35 and 36.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land and dense undergrowth on 80.04 chs.

Knowing that the line bet. secs. 25 and 36 will intersect the Utah-Colorado boundary line, I run

East on a true line

bet. secs. 25 and 36.

Descend over rocky land through scattering cedar and pinon timber, and dense artemisia.

7.00 Bottom of hollow, 150 ft. deep, course N.

Begin abrupt ascent.

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS

13.00	Top of spur projects N. Descend.
20.00	Bottom of hollow, 100 ft. deep, course N. Ascend.
27.00	Top of spur projects N. Descend.
35.00	Bottom of hollow, 200 ft. deep, course NW. Ascend.
39.00	Top of ridge bears NW. and SE. Descend.
40.00	Set a sandstone, 16x9x8 ins., 11 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on N. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor Pits impracticable.
56.00	Bottom of hollow, 150 ft. deep, course N. Ascend.
82.50	Top of spur projects N. Descend.
88.00	Bottom of hollow, 100 ft. deep, course N. Ascend.
106.00	Top of spur projects N. Descend.
108.26	Intersect the Utah-Colorado Bdy. Line, 35.36 chs., N. $0^{\circ}50'$ E. of the 194 3-4 Mile Cor., heretofore described. Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for closing cor. of secs. 25 and 36, marked U C C on W., and C on E. face; . . . , with 1 groove on the S. and 5 grooves on the N. face; from which A pinon, 6 ins. diam., bears N. $62^{\circ}W.$, 1.02 chs. dist., marked T 11 S R 25 E S 25 B T. A pinon, 18 ins. diam., bears S. $42^{\circ}30'W.$, 83 lks. dist., marked T 11 S R 25 E S 36 B T. Land, mountainous. Soil: rocky, 3rd rate.

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS

Timber, cedar and pinon.

Mountainous land and dense undergrowth on 108.26 chs.

N.0°03'E., bet. secs. 25 and 26.

Descend over rocky land through dense artemisia, and scattering cedar and pinon timber.

17.00 Bottom of hollow, 200 ft. deep, course E.

Begin abrupt ascent.

25.00 Top of spur projects E.

Begin abrupt descent.

29.00 Bottom of hollow, 100 ft. deep, course E.

Begin abrupt ascent.

33.00 Top of spur projects E.

Descend.

40.00 Set a sandstone, 24x10x3 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which

A pinon, 4 ins. diam., bears N.81°30'E., 35 lks. dist., marked $\frac{1}{4}$ S 25 B T.

A pinon, 6 ins. diam., bears S.55°30'W., 20 lks. dist., marked $\frac{1}{4}$ S 26 B T.

46.00 Bottom of hollow, 100 ft. deep, course E.

Ascend.

53.00 Top of ridge bears NE. and SW.

Begin abrupt descent.

62.00 Bottom of Park Canon, 300 ft. deep, course NW.

Begin abrupt ascent.

77.00 Top of spur projects SW.

80.00 Set a sandstone, 18x10x5 ins., 12 ins. in the ground, for cor. of secs. 23-24-25 and 26, marked with 2 notches on the S. and 1 notch on the E. edge; from which

A cedar, 12 ins. diam., bears N.34°E., 142 chs. dist., marked T 11 S R 25 E S 24 B T.

A cedar, 8 ins. diam., bears S.10°E., 84 lks. dist., marked T 11 S R 25 E S 25 B T.

SUBDIVISIONS OF T.11 S., R. 25 E.

- Chains. A cedar 10 ins.diam.bears S. $48^{\circ}30'W.$, 51 lks.dist.
marked T 11 S R 25 E S 26 B T
- A cedar 6 ins.diam.bears N. $73^{\circ}W.$ 27 lks.dist.
marked T 11 S R 25 E S 23 B T
- Land mountainous.
- Soil rocky; 3d rate.
- Timber cedar and pinon.
- Mountainous land and dense undergrowth on 80.00 chs.
- Sept. 5: At this cor. I set off $6^{\circ}47'N.$ on the decl.arc;
and at 11h 59 m a.m.l.m.t. observe the sun on the meridi-
an; the resulting lat. is $39^{\circ}50'N.$
-
- N. $89^{\circ}58'W.$ on a random line bet. secs. 23 and 26
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 80.06 Intersect N. and S.line, 3 lks.S. of the cor.of secs.
22,23,26, and 27. Thence I run
- S. $89^{\circ}57'E.$ on a true line bet. secs. 23 and 26
- Descend over rough and broken land, through scattering
cedar and pinon timber and dense artemisia.
- 12.00 Bottom of hollow, 100 ft.deep, course N. Ascend.
- 22.00 Top of spur projects N. Descend.
- 40.03 Set a sandstone 18x12x3 ins.12 ins.in the ground, for $\frac{1}{4}$
sec.cor., marked $\frac{1}{4}$ on N.face; from which
- A cedar 8 ins.diam.bears N. $1^{\circ}30'E.$ 31 lks.dist.
marked $\frac{1}{4}$ S 23 B T
- A cedar 10 in s.diam.bears S. $30^{\circ}W.$ 6 lks.dist.
marked $\frac{1}{4}$ S 26 B T
- 51.00 Bottom of Park Canon 300 ft.deep, course NW.
Begin abrupt ascent.
- 74.00 Top of spur projects S. Begin abrupt descent.
- 78.00 Bottom of hollow, 100 ft.deep, course S.
Ascend.
- 80.06 The cor.of secs. 23,24,25, and 26.
- Land mountainous.

SUBDIVISIONS OF T.11 S., R. 25 E.

- Chains. Soil rocky; 3d. rate.
 Timber cedar and pinon.
 Mountainous land and dense undergrowth on 80.06 chs.
-
- Knowing the line bet. secs. 24 and 25 will intersect the Utah-Colorado boundary line, I run
 East on a true line bet. secs. 24 and 25,
 Ascend over rocky and broken land, through dense artemisia and scattering cedar timber.
- 2.50 Top of spur projects SW. Begin abrupt descent.
 11.90 Bottom of hollow, 150 ft. deep, course SW.; ascend .
 20.00 Foot of perpendicular sandstone ledges, 200 ft. high,
 bearing N. and S. Ledges are impassable, therefore I
 Set a sandstone 16x12x4 ins., 11 ins. in the ground for
 witness point, marked W P on N. face; and raise a mound of
 stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
 From this point I offset
 South 10.00 chs.; thence East on offset line to
 40.00 Set a sandstone 20x10x3 ins., 15 ins. in the ground, for
 witness cor. to $\frac{1}{4}$ sec. cor., marked $WC\frac{1}{4}$ on N. face; and
 raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
 Pits impracticable.
 60.00 Offset N. 10.00 chs. to true line,
 Set a sandstone 17x10x5 ins., 11 ins. in the ground for
 witness point, marked WP on N. face, and raise a mound of
 stones 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
 Ascend.
 109.32 Intersect Utah-Colorado Bdy. line 51.39 chs. S. 0°50' W. of
 the 196 $\frac{7}{8}$ mile cor., heretofore described.
 Set a sandstone 16x14x4 ins., 11 ins. in the ground, for

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS

closing cor. of secs. 24 and 25, marked

U. C C on W., and

C on E., with 2 grooves on the S. and 4 grooves on the N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar.

Mountainous land and dense undergrowth on 109.32 chs.

Sept. 5, 1904.

Sept. 6: At 7 a.m., l.m.t., I set off $39^{\circ}50'N.$ on the lat. arc; $6^{\circ}31'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 23-24-25 and 26.

Thence I run

$N.0^{\circ}03'E.$, bet. secs. 23 and 24.

Ascend over rocky land through scattering cedar and pinon timber and dense artemisia.

28.00 Top of spur projects W.

Begin abrupt descent.

38.00 Perpendicular sandstone ledges bears NE. and SW.

Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked W C₄ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

40.00 Point for $\frac{1}{4}$ sec. cor., falls on perpendicular sandstone ledges, and cannot be set.

42.00 Bottom of hollow, 300 ft. deep, course SW.

Ascend.

58.00 Top of ridge bears NW. and SE.

Descend.

Leave timber.

80.00 Set a sandstone, 18x10x8 ins., 12 ins. in the ground, for

Subdivisions of T.11 S., R.25 E.

CHAINS

cor. of secs. 13-14-23 and 24, marked with 3 notches on S. and 1 notch on E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. rate.

Timber, cedar and pinon.

Mountainous land and dense undergrowth 80.00 chs.

N. $89^{\circ}57'W.$, on a random line, bet. secs. 14 and 23.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.02 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 14-15-22 and 23.

Thence I run

S. $89^{\circ}59'E.$, on a true line,

Bet. secs. 14 and 23.

Over broken and rocky land; ascend through dense artemisia.

16.00 Top of ridge, bears N.E. and S.W.

Descend.

24.00 Bottom of hollow, 100 ft. deep, course S.

Ascend.

30.00 Top of rocky spur, projects S.

Ascend.

40.01 Bottom of hollow, 150 deep, course S.W.

Set a sandstone, 16x8x6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

Ascend.

64.00 Top of spur, projects N.

Descend.

80.02 The cor. of secs. 13-14-23 and 24.

Land, mountainous.

Soil, rocky, 3rd. and 4th. rate.

Subdivisions of T. 11 S., R. 25 E.

CHAINS

- No timber.
- Mountainous land on 80.02 chs.
- Knowing the line bet: secs. 13 and 24 intersects the Utah-Colorado boundary line, I run
- East, on a true line,
- Bet. secs. 13 and 24.
- Over rocky and broken land, descend.
- 11.00 Enter scattering cedar and pinon timber.
- 40.00 Head of hollow, course N.
- Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face, from which
- A pinon, 12 ins. diam., bears S. $23^{\circ}40' E.$, 23 lks. dist., marked $\frac{1}{4}$ S 24 B T.
- A pinon, 6 ins. diam., bears N. $10^{\circ}25' W.$, 43 lks. dist., marked $\frac{1}{4}$ S 13 B.T.
- Ascend.
- 83.00 Top of ridge, bears N.E. and S.W.
- Descend.
- 95.00 Bottom of hollow, 300 ft. deep, course S.W.
- Ascend.
- 104.00 Top of spur, projects S.W.
- Leave timber.
- Descend.
- 109.40 Intersect the Utah-Colorado boundary line, 28:63 chs. N. $0^{\circ}08' W.$, from the 196 7-8 mile cor., heretofore described. Set a sandstone, 18x8x8 ins., 12 ins. in the ground, for closing cor. to secs. 13 and 24, marked U CC on W., C on E., with 3 grooves on N. and S. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- Pits impracticable.
- Land, mountainous.
- Soil, rocky, 3rd. rate.
- Timber, cedar and pinon.

Subdivisions of T.11 S., R.25 E.

CHAINS	Mountainous land on 109.40 chs. Sept. 6 : At this cor. I set off $6^{\circ}25'N.$ on decl. arc, and at 11h.58m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $39^{\circ}51'N.$ N. $0^{\circ}05'E.$, bet. secs. 13 and 14. Over rocky and broken land, descend through dense artemisia.
57.00	Bottom of hollow, 150 ft. deep, course S.W. Ascend.
40.00	Set a sandstone, 16x11x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
62.00	Top of ridge, bears E. and W. Descend.
70.00	Bottom of hollow, 100 ft. deep, course W. Ascend.
76.00	Top of ridge, bears N.W. and S.E. Descend.
80.00	Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for cor. of secs. 11-12-13 and 14, marked with 4 notches on S. and 1 notch on E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. No timber. Mountainous land on 80.00 chs.
40.00	N. $89^{\circ}59'W.$, on a random line, bet. secs. 11 and 14. Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. and S. line, 7 lks. N. of the cor. of secs. 10-11-14 and 15. Thence I run N. $89^{\circ}58'W.$ on a true line

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS.

- bet. secs. 11 and 14.
- Ascend over rocky land through dense artemisia.
- 21.00 Top of ridge bears NE. and SW.
- Descend.
- 30.00 Bottom of hollow, 100 ft. deep, course SW.
- Ascend.
- 40.03 Set a sandstone, 14x12x4 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- Pits impracticable.
- 55.00 Top of ridge bears NE. and SW.
- Descend.
- 69.00 Head of hollow, course SW.
- Ascend.
- 73.00 Top of ridge bears NE. and SW.
- Descend.
- 80.06 The cor. of secs. 11-12-13 and 14.
- Land, mountainous.
- Soil: rocky, 3rd rate.
- No timber.
- Mountainous land and dense undergrowth on 80.06 chs.
-
- Knowing the line bet. secs. 12 and 13, intersects the Utah-Colorado Bdy. Line, I run
- East on a true line
bet. secs. 12 and 13.
- Descend over rocky land through dense artemisia.
- 30.00 Bottom of hollow, 100 ft. deep, course N.
- Ascend.
- Enter scattering cedar and pinon timber.
- 40.00 Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A pinon, 10 ins. diam., bears N. $20^{\circ}30' E.$, 21 lks. dist., marked $\frac{1}{4}$ S 12 B T.

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS

A pinon, 12 ins. diam., bears $S.45^{\circ}W.$, 29 lks. dist., marked $\frac{1}{2}$ S 13 B T.

42.00 Top of spur projects N.
Descend.

57.00 Bottom of hollow, 150 ft. deep, course N.
Ascend.

60.00 Top of spur projects N.
Descend.

90.00 Bend in hollow, course from NE. to NW.
Ascend.

100.00 Top of spur projects N.
Descend.

109.25 Bottom of hollow, 100 ft. deep, course NW.
Intersect Utah-Colorado Bdy. Line, 20.40 chs., $N.0^{\circ}01'E.$, of the 198 Mile Cor.; heretofore described.
Set a sandstone, 15x12x3 ins., 10 ins. in the ground, for closing cor. to secs. 12 and 13, marked
U C C on W., and
C on E., with 4 grooves on the S. and 2 grooves on the N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar.
Mountainous land and dense undergrowth on 109.25 chs.

Sept. 6, 1904.

Sept. 7: At 7^h a.m., 1.m.t., I set off $39^{\circ}52'N.$ on the lat. arc; $6^{\circ}09'W.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 11-12-13 and 14.
Thence I run

SUBDIVISIONS OF T. 11 S., R. 25 E.

CHAINS

- N. 0° 03' E., bet. secs. 11 and 12.
- Descend over rocky land through scattering cedar and pinon timber, and dense artemisia.
- 32.00 Bottom of hollow, 250 ft. deep, course W.
- Ascend.
- 40.00 Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
- A pinon, 11 ins. diam., bears N. 54° 40' E., 47 lks. dist., marked $\frac{1}{4}$ S 12 B T.
- A pinon, 10 ins. diam., bears N. 35° 45' W., 38 lks. dist., marked $\frac{1}{4}$ S 11 B T.
- 45.00 Top of spur projects SW.
- Descend.
- 57.00 Bottom of hollow, 250 ft. deep, course SW.
- Ascend.
- 62.00 Top of spur projects SW.
- Descend.
- 68.00 Bottom of hollow, 250 ft. deep, course SW.
- Ascend.
- 72.00 Top of ridge bears NE. and SW.
- Descend.
- 80.00 Set a sandstone, 16x12x4 ins., 11 ins. in the ground, for cor. of secs. 1-2-11 and 12, marked with 5 notches on the S. and 1 notch on the E. edge; from which
- A pinon, 8 ins. diam., bears N. 58° E., 96 lks. dist., marked T 11 S R 25 E S 1 B T.
- A pinon, 10 ins. diam., bears S. 23° E., 30 lks. dist., marked T 11 S R 25 E S 12 B T.
- A pinon, 10 ins. diam., bears S. 71° 30' W., 68 lks. dist., marked T 11 S R 25 E S 11 B T.
- A pinon, 8 ins. diam., bears N. 56° 20' W., 43 lks. dist., marked T 11 S R 25 E S 2 B T.
- Land, mountainous.
- Soil; rocky, 3rd rate.

SUBDIVISIONS OF T.11 S., R.25 E.

CHAINS

Timber, cedar and pinon.

Mountainous land and dense undergrowth on 80.00 ohs.

S.89°58'W. on a random line bet. secs. 2 and 11.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.04 Intersect N. and S. line, 9 lks. S. of the cor. of secs.

2-3-10 and 11.

Thence I run

S.89°58'E. on a true line

bet. secs. 2 and 11. at 11.00 ohs.

Ascend over rocky land through dense artemisia.

8.00 Top of ridge bears N. and S.

Descend.

19.00 Bottom of hollow, 250 ft. deep, course SW.

Ascend.

39.00 Top of ridge bears NE. and SW.

Descend.

40.02 Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for

$\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

48.00 Bottom of hollow, 300 ft. deep, course SW.

Ascend.

Enter scattering cedar and pinon timber.

80.04 The cor. of secs. 1-2-11 and 12.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land and dense undergrowth on 80.04 ohs.

Knowing the line bet. secs. 1 and 12 intersects the Utah-Colorado Bdy. Line, I run

East on a true line

bet. secs. 1 and 12.

Subdivisions of T.11 S., R.25 E.

CHAINS	Over rocky land, ascend through scattering cedar and pinon timber.
3.25	Top of ridge, bears S.W. and E. Thence along top of ridge.
20.00	Leave ridge, bears N.E. and W. Descend.
40.00	Head of hollow, course S.W. Set a sandstone, 18x10x3 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Ascend.
49.00	Top of ridge, bears N.W. and S.E. Begin abrupt descent. Enter heavy cedar and pinon timber, bears N.W. and S.E.
95.00	Bottom of hollow, 300 ft. deep, course N. Ascend.
109.36	Intersect the Utah-Colorado boundary line, 20.80 chs.. N. $0^{\circ}10'W.$, of the 199 mile cor., heretofore described. Set a sandstone, 20x11x7 ins., 15 ins. in the ground, for closing cor. of secs. 1 and 12, marked U CC on W., C on E., with 5 grooves on S. and 1 groove on N. face, from which A pinon, 5. ins. diam., bears N. $64^{\circ}W.$, 37 lks. dist., marked T 11 S R 25 E S 1 B T. A pinon, 5 ins. diam., bears S. $82^{\circ}W.$, 13 lks. dist., marked T. 11 S. R. 25 E. S. 12 B. T. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. Timber, heavy cedar and pinon on 60.36 chs. Mountainous land or heavily timbered on 109.36 chs.
	The north bdy. of the township being the 2nd. Standard Parallel South, I run N. $0^{\circ}03'E.$, on a true line,

Subdivisions of T.11 S., R.25 E.

CHAINS	Bet. secs. 1 and 2.
	over rocky land, descend through scattering cedar and pinon timber.
8.00	Bottom of hollow, 150 ft. deep, course S.W.
	Ascend.
18.00	Top of ridge, bears N.E. and S.W.
	Descend.
35.00	Bottom of hollow, 150 ft. deep, course S.W.
	Ascend. Leave timber.
40.00	Top of ridge, bears N.E. and S.W.
	Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	Descend.
50.00	Bottom of hollow, 100 ft. deep, course S.W.
	Ascend.
63.50	Top of ridge, bears N.W. and S.E.
	Begin abrupt descent.
	Enter heavy cedar and pinon timber, bears N.W. and S.E.
80.12	Intersect the 2nd. Standard Parallel South, 8.25 chs. E. of the Stan. Cor. to secs. 34 and 35, heretofore described.
	Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for closing cor. to secs. 1 and 2, marked CC on S., with 1 groove on E. and 5 grooves on W. faces, from which
	A cedar, 7 ins. diam., bears S.78° E., 39 lks. dist., marked T 11 S R 25 E S 1 B T.
	A cedar, 5 ins. diam., bears S.54° W., 10 lks. dist., marked T 11 S R 25 E S 2 B T.
	Land, mountainous.
	Soil, rocky, 3rd. and 4th. rate.
	Timber, heavy cedar and pinon on 16.62 chs.
	Mountainous land or heavily timbered on 80.12 chs.

September 7, 1904.

General Description of T.11 S., R.25 E.

This township is situated on the Utah-Colorado boundary line, on the south side of White River and is broken by many deep ravines and canons, all of which drain into White River.

The soil is generally rocky ; about half of the township is covered by a dense growth of undergrowth and is being used for a winter range for sheep.

There is no water in the township.

A scattering growth of cedar and pinon timber is found along the southern and eastern portions of the township. The only mineral found in the township is a gilsonite vein on the Rainbow Lode, which runs through secs. 30-31 and 32.

There is one valid claim, Survey No. 5225 No. 1 East Norwell on the Rainbow Lode in this township.

There are no settlers in this township.

I return the following as mineral land: Lots 1 and 2, and E $\frac{1}{2}$ of SW $\frac{1}{4}$ sec. 30; E $\frac{1}{2}$ of NE $\frac{1}{4}$ sec. 31; and SW $\frac{1}{4}$ of NW $\frac{1}{4}$, and S $\frac{1}{2}$ sec. 32.

Alfredo R. Palomante
U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alfredo R Talamantes,

United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision of N. 1 S. R. 25 E. of the Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

Julius N. White, Chainman.

Egbert White, Chainman.

Howard M. Stodge, Moundman.

William Pearson, Axman.

William L. White, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfredo R. Talamantes

United States Deputy Surveyor, in surveying all those parts or portions of the

Subdivision of N. 1 S. R. 25 E.

Salt Lake Pass meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Julius N. White, Chainman.

Egbert White, Chainman.

Howard M. Stodge, Moundman.

William Pearson, Axman.

Axman.

William L. White, Flagman.

Subscribed and sworn to before me this

7th

day of September, 1904.



B. T. Barker

Notary Public

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alfredo R. Talamantes, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of the 19 day of April 1904, 189, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

Subdivisions of T11 R25 E

Base and meridian, in the State of Utah, of the Salt Lake meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alfredo R. Talamantes
United States Deputy Surveyor.

Subscribed by said Alfredo R. Talamantes, and sworn to before me }
this 25th day of November 1904, 189 }



Edward H. Anderson
U.S. Surveyor General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 27, 1905

The foregoing field notes of the survey of the Subdivisional lines of Township No. 11 South, Range No. 25 East of the Salt Lake Base and Meridian, Utah,

executed by Alfredo R. Talamantes and Harvey D. Heist, U.S. Deputy Surveyor, their under his contract No. 285, dated April 12, 1904, 189, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office

United States Surveyor General

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ONQ.

FIELD NOTES

OF THE SURVEY OF THE

*Subdivisions of**Township No. 11 South**Range No 24 East**of the Bear Lake Base Meridian,
In the State of Utah*

AS SURVEYED BY

Alfredo P. Talamantes and Harry D. Hart, United States Deputy Surveyor

Under their Contract No. 285, dated April 12-1904, 1804

Survey commenced August 30-1904, 1804

Survey completed Sept 6-1904, 1804

6-161

Legal 59-67-73 ✓

Dist 40.98 ✓

(H.A.C.) 19.61 ✓

NAMES AND DUTIES OF ASSISTANTS.

Earl Woolley	Chairman
Hiber Christenson	"
Andrew Stumpf	Manager
Edward J. Baird	Attman
John A. Neely	Flagman

For preliminary affidavits see book "D" T.9 S.R.21 E.

BOOK A-326

INDEX DIAGRAM.

Township _____, *Range* _____

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Meanders Page _____

BUREAU OF SURVEYORS
PRELIMINARY OATHS OF ASSISTANTS.

WE, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners, and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
day of , 189 }



SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS.

Survey commenced August 30, 1904, and executed with the instrument described in book "A" of this survey.

I know the instrument to be inadjustment from recent observations made August 27, 1904, and recorded in book "Z" of this survey.

At 7h a.m., i.m.t., I set off $39^{\circ}49' N.$ on the lat.arc; $9^{\circ}04' N.$ on the decl.arc; and determine a meridian with the solar at the cor.of secs. 1-2-35 and 36, heretofore described, on the S.bdy. of the Tp.

Thence I run

$N.0^{\circ}01' W.$, bet. secs. 35 and 36.

Descend over rocky land through dense artemisia and scattering cedar and pinon timber.

12.00 Bottom of hollow, 100 ft. deep, course NW.

Ascend.

25.00 Top of ridge bears NW. and SE.

Descend.

40.00 Set a limestone, $24 \times 12 \times 3$ ins., 18 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which

A cedar, 5 ins. diam., bears $S.67^{\circ} E.$, 18 lks.dist., marked $\frac{1}{4} S 36 B T.$

A cedar, 12 ins. diam., bears $S.57^{\circ} W.$, 51 lks.dist., marked $\frac{1}{4} S 35 B T.$

59.00 A gilsonite vein, 9 ins. wide, on the South Harrison Lode, bears NW. and SE.

73.75 Bottom of hollow, 150 ft. deep, course W.

Begin abrupt ascent.

80.00 Set a sandstone, $18 \times 12 \times 5$ ins., 12 ins. in the ground, for cor.of secs. 25-26-35 and 36, marked with 1 notch on the S. and E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil; rocky, 3rd rate.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

Timber, cedar and pinon.

Mountainous land and dense undergrowth on 80.00 chs.

N. 89°59' E. on a random line bet. secs. 25 and 36.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.92 Intersect Guide Meridian, 7 lks. S. of the cor. of secs. 25-30-31 and 36, heretofore described.

Thence I run

S. 89°56' W. on a true line
bet. secs. 25 and 36.

Descend over rocky land through scattering cedar and pinon timber.

3.00 Wagon road bears NE. and SW.

4.00 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

8.25 Top of ridge bears NW. and SW.

Descend.

34.00 Bottom of hollow, 100 ft. deep, course SW.

Ascend.

39.00 Top of spur projects S.

Descend.

39.96 Set a sandstone, 20x11x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

A pinon, 6 ins. diam., bears N. 2° W., 94 lks. dist.,
marked $\frac{1}{4}$ S 25 B T.

A cedar, 5 ins. diam., bears S. 28° E., 32 lks. dist.,
marked $\frac{1}{4}$ S 36 B T.

42.75 Bottom of hollow, 100 ft. deep, course SW.

Ascend.

50.70 Top of spur projects SW.

Begin abrupt descent.

65.75 Bottom of hollow, 100 ft. deep, course S.

Begin abrupt ascent.

71.00 Top of ridge bears NE. and NW.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS	
	Begin abrupt descent.
	Leave timber.
79.92	The cor. of secs. 25-26-35 and 36.
	Mountainous land.
	Soil: rocky, 3rd rate.
	Timber, cedar and pinon.
	Mountainous land on 79.92 chs.
	 N.0°01'W., bet. secs. 25 and 26.
	Ascend abruptly over rocky land.
1.65	Top of spur projects W.
	Descend.
	Enter scattering cedar and pinon timber.
7.50	Bottom of hollow, 150 ft. deep, course SW.
	Ascend.
19.50	Top of spur projects SW.
	Descend.
27.50	Bottom of hollow, 100 ft. deep, course SW.
	Ascend.
35.80	Top of ridge bears NE. and SW.
	Descend.
40.00	Set a sandstone, 24x12x3 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which
	A cedar, 5 ins. diam., bears S.75°E., 48 lks.dist., marked $\frac{1}{4}$ S 25 B T.
	A cedar, 8 ins. diam., bears N.60°W., 3 lks.dist., marked $\frac{1}{4}$ S 26 B T.
42.00	Bottom of hollow, 75 ft. deep, course W.
	Ascend.
57.00	Top of ridge bears E. and W.
	Descend.
67.00	Bottom of hollow, 100 ft. deep, course W.
	Ascend.
71.50	Top of spur projects W.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- Descend.
- 77.00 Bottom of hollow, 100 ft. deep, course SW.
- Ascend.
- 80.00 Set a sandstone, 24x12x5 ins., 18 ins. in the ground, for cor. of secs. 23-24-25 and 26, marked with 2 notches on the S. and 1 notch on the E. edge; from which
- A cedar, 8 ins. diam., bears N. 70° E., 56 lks. dist., marked T 11 S R 24 E S 24 B T.
- A cedar, 12 ins. diam., bears S. 68° E., 86 lks. dist., marked T 11 S R 24 E S 25 B T.
- A cedar, 5 ins. diam., bears S. 4° W., 38 lks. dist., marked T 11 S R 24 E S 26 B T.
- A cedar, 24 ins. diam., bears N. 78° W., 43 lks. dist., marked T 11 S R 24 E S 23 B T.
- Land, mountainous.
- Soil: rocky, 3rd rate.
- Timber, cedar and pinon.
- Mountainous land on 80.00 chs.
-
- N. 89° 56' E. on a random line bet. secs. 24 and 25.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Intersect Guide Meridian, 12 lks. N. of the cor. of secs. 19-24-25 and 30, heretofore described.
- Thence I run
- N. 89° 59' W., on a true line
bet. secs. 24 and 25.
- Ascend over rocky land.
- 2.00 Top of ridge bears NE. and SW.
- Descend.
- Note: From this point, a sandstone column, 40 ft. diam., 100 ft. high, called Thimble Rock, bears S. 69° W.
- 3.00 Enter scattering cedar and pinon timber.
- 11.00 Bottom of hollow, 100 ft. deep, course NE.
- Begin abrupt ascent.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- 21.50 Top of ridge bears NE. and SW.
Descend.
- 28.00 Bottom of hollow, 100 ft. deep, course NE.
Ascend.
- 33.00 Top of spur projects N.
Descend.
- 34.00 Leave timber.
- 38.00 Bottom of hollow, 100 ft. deep, course N.
Ascend.
- 40.02 Set a sandstone, 24x12x3 ins., 18 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of
stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
Note: From this cor., Thimble Rock bears S. 52° E.
- 44.00 Enter scattering cedar and pinon timber.
- 44.50 A gilsonite vein, 40 ins. wide, on Rainbow Lode, bears NW.
and SE.
- 45.50 Top of spur projects NE.
Descend.
- 50.00 Bottom of hollow, 100 ft. deep, course NE.
Ascend.
- 66.40 Wagon road, bearing NW. and SE., on top of ridge, bearing
NW. and SE.
Descend.
- 78.00 Bottom of hollow, 100 ft. deep, course SW.
Ascend.
- 80.04 The cor. of secs. 23-24-25 and 26.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.04 chs.
August 30: At this cor., I set off $8^{\circ}58'$ N. on the decl. arc;
and at 12 M., observe the sun on the meridian; the result?

SUBDIVISIONS OF T. 11 S., R. 24 E.

CHAINS

ing lat. is $39^{\circ}50'N.$ $N.0^{\circ}01'W.$, bet. secs. 23 and 24.

Ascend through scattering cedar and pinon timber.

9.70 Wagon road bears NW. and SE. on top of ridge, bearing NW. and SE.

Descend.

27.70 Gilsonite vein, 48 ins. wide, on Rainbow Lode, bears NW. and SE.

40.00 Set a sandstone, 24x12x4 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from whichA cedar, 9 ins. diam., bears $N.4^{\circ}E.$, 88 lks. dist., marked $\frac{1}{4} S 24 B T.$ A cedar, 10 ins. diam., bears $S.56^{\circ}W.$, 85 lks. dist., marked $\frac{1}{4} S 23 B T.$ Note: From this cor., United States Location Monument, No. 9, which is a cedar, post, 5 ft. long, 6 ins. square, set in mound of stone, marked and witnessed as described by the surveyor general, bears $S.78^{\circ}58'W.$, 12.61 chs. dist.

70.00 Leave timber.

80.00 Set a sandstone, 20x12x4 ins., 15 ins. in the ground, for cor. of secs. 13-14-23 and 24, marked with 3 notches on the S. and 1 notch on the E. edge; from which

A cedar, 7 ins. diam., bears $S.67^{\circ}W.$, 89 lks. dist., marked T 11 S R 24 E S 23 B T.A cedar, 9 ins. diam., bears $N.88^{\circ}30'W.$, 1.08 hs. dist., marked T 11 S R 24 E S 14 B T.No other trees within limits; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

 $S.89^{\circ}59'E.$ on a random line bet. secs. 13 and 24.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 79.98 Intersect Guide Meridian, 9 lks.N. of the cor.of secs.
13-18-19 and 24, heretofore described.
Thence I run
N. $89^{\circ}55'W.$, on a true line
bet.secs.13 and 24.
Ascend abruptly over rocky land.
- 15.00 Top of ridge bears NE.and SW.
- Descend. Enter heavy cedar and pinon timber; bears NE.& SW.
- 29.00 Bottom of hollow, 100 ft. deep, course NE.
Ascend.
- 39.99 Set a sandstone, 24x10x3 ins., 18 ins.in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face;from which
A pinon, 14 ins.diam., bears S. $46^{\circ}W.$, 28 lks.dist.,
marked $\frac{1}{4}$ S 24 B T.
A pinon, 7 ins.diam., bears N. $1^{\circ}W.$, 49 lks.dist.,
marked $\frac{1}{4}$ S 13 B T.
- 52.00 Top of ridge bears NE.and SW.
Descend.
- 57.00 Bottom of hollow, 100 ft. deep, course NE.
Ascend.
- 63.00 Top of ridge bears N.and S.
Descend.
- 67.50 Bottom of holow, 100 ft.deep, course N.
Ascend.
- 76.00 Leave heavy timber, bearing NE.and SW.
- 79.98 The cor of secs.13-14-23 and 24.
Land, mountainous.
Soil;rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land or heavily timbered, on 79.98 chs.
N. $0^{\circ}01'W.$, bet.secs.13 and 14.
Ascend through dense artemisia.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- 5.00 Enter heavy cedar and pinon timber, bearing NE. and SW.
- 30.50 Bottom of hollow, 150 ft. deep, course NW.
Ascend.
- 40.00 Set a sandstone, 24x10x4 ins., 18 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which
A cedar, 12 ins. in diam., bears N. 6° E., 33 lks. dist.,
marked $\frac{1}{4}$ S 13 B T.
A cedar, 10 ins. diam., bears S. 80° W., 39 lks. dist.,
marked $\frac{1}{4}$ S 14 B T.
- 63.00 Top of spur projects SW.
Descend.
- 70.00 Bottom of hollow, 100 ft. deep, course SW.
Ascend.
- 75.00 Top of spur projects W.
Descend.
- 80.00 Set a sandstone, 24x15x4 ins., 18 ins. in the ground, for
cor. of secs. 11-12-13 and 14, marked with 4 notches on the
S. and 1 notch on the E. edge; from which
A cedar, 4 ins. diam., bears N. $5^{\circ}30'$ E., 61 lks. dist.,
marked T 11 S R 24 E S 12 B T.
A cedar, 5 ins. diam., bears S. 86° E., 1.32 chs. dist.,
marked T 11 S R 24 E S 13 B T.
A cedar, 5 ins. diam., bears S. 45° W., 1.03 chs. dist.,
marked T 11 S R 24 E S 14 B T.
A cedar, 4 ins. diam., bears N. 74° W., 1.57 chs. dist.,
marked T 11 S R 24 E S 11 B T.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land or heavily timbered on 80.00 chs.
-
- S. $89^{\circ}55'$ E. on a random line bet. secs. 12 and 13.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 80.04 Intersect Guide Meridian, 3 lks. N. of the cor. of secs.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

7-12-13. and 18, heretofore described.

Thence I run

N. 89° 54' W., on a true line

bet. secs. 12 and 13.

On top of spur. projecting NE., descend over rocky land through dense artemisia.

10.00 Bottom of hollow, 75 ft. deep, course NE.

Ascend.

14.00 Top of ridge bears NE. and SW.

Descend.

25.00 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

Enter scattering cedar and pinon timber.

40.02 Set a sandstone, 18x14x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

A cedar, 8 ins. diam., bears N. 33° W., 1.30 chs. dist., marked $\frac{1}{4}$ S 12. B T.

A cedar, 5 ins. diam., bears S. 76° W., 50 lks. dist., marked $\frac{1}{4}$ S 13 B T.

51.30 Top of spur projects NE.

Descend.

55.00 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

59.75 Top of spur projects NE.

Descend.

66.00 Bottom of hollow, 150 ft. deep, course NE.

Ascend.

78.00 Top of ridge bears N. and S.

Descend.

80.04 The cor. of secs. 11-12-13 and 14.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land and dense undergrowth on 80.04 chs.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

N.0°01'W., bet. secs. 11 and 12.

Descend over rocky land through scattering cedar and pinon timber.

4.00 Head of hollow, course W.

Begin abrupt ascent..

16.00 Top of ridge bears NE. and SW.

Descend.

22.00 Head of hollow, course E.

Ascend.

26.30 Top of ridge bears E. and W.

Descend.

40.00 Point for $\frac{1}{4}$ sec.cor., falls on sandstone slope; cut a cross(x) at exact cor. point., for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ W. of cross; from which

A pinon, 8 ins. diam., bears N.6°E., 84 lks. dist.,

marked $\frac{1}{4}$ S 12. B T.

A pinon, 7 ins. diam., bears N.43°W., 67 lks. dist.,

marked $\frac{1}{4}$ S 11. B T.

58.75 Bottom of hollow, 100 ft. deep, course NW.

Ascend.

65.00 Top of ridge bears NE. and SW.

Descend.

80.00 Set a sandstone, 24x12x4 ins., 18 ins. in the ground, for cor. of secs. 1-2-11 and 12, marked with 5 notches on the S. and 1 notch on the E. edge; from which

A cedar, 6 ins. diam., bears N.56°E., 1.45 chs. dist.,

marked T 11 S R 24 E S 1 B T.

A cedar, 5 ins. diam., bears S.11°E., 87 lks. dist.,

marked T 11 S R 24 E S 12 B T.

A pinon, 7 ins. diam., bears S.0°30'W., 79 lks. dist.,

marked T 11 S R 24 E S 11 B T.

A cedar, 8 ins. diam., bears N.35°W., 59 lks. dist.,

marked T 11 S R 24 E S 2 B T.

Land, mountainous.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

Soil; rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

August 30, 1904.

August 31: At 7h a.m., l.m.t., I set off $8^{\circ}42'N.$ on the decl.arc; $39^{\circ}53'E.$ on the lat.arc; and determine a meridian with the solar à the cor. of secs. 1-2-11 and 12.

Thence I run

$S.89^{\circ}54'E.$ on a random line bet. secs. 1 and 12.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.06 Intersect Guide Meridian, 9 lks.S. of the cor. of secs. 1-6-7 and 12, heretofore described.

Thence I run

$N.89^{\circ}58'W.$, on a true line

bet. secs. 1 and 12.

Ascend over rocky land.

1.00 Top of spur projects NE.

Descend.

14.00 Bottom of hollow, 75 ft. deep, course NE.

Ascend.

23.00 Top of ridge bears NE. and SW.

Descend.

Enter scattering cedar and pinon timber.

40.03 Set a sandstone, 24x10x6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which

A cedar, 12 ins.diam., bears $N.61^{\circ}E.$, 20 lks.dist.,

marked $\frac{1}{4}$ S 1 B T..

A cedar, 10 ins.diam., bears $S.35^{\circ}E.$, 33 lks.dist.,

marked $\frac{1}{4}$ S 12 B T.

42.00 Bottom of hollow 100 ft. deep, course NE.

67.00 Top of ridge bears N. and S. Descend..

74.50 Bottom of hollow, 100 ft. deep, course NW.

Ascend.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

78.00 Top of spur projects N.

Descend.

80.06 The cor. of secs. 1-2-11 and 12.

Land, mountainous.

Soil; rocky, 3rd rate.

Timber, cedar.

Mountainous land on 80.06 chs.

The 2nd Stan. Par. South is the N. bdy. of the Tp.

Therefore I run

N.0°01'W., on a true line.

bet. secs. 1 and 2.

Descend through scattering cedar and pinon timber.

22.00 Bottom of hollow, 100 ft. deep, course NW.

Begin abrupt ascent.

38.50 Top of ridge bears SE. and N.

Descend along top of ridge.

40.00 Set a sandstone, 20x12x4 ins., 15 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which

A cedar, 6 ins. diam., bears S.58°E., 52 lks. dist.,

marked $\frac{1}{4}$ S 1 B T.

A cedar, 6 ins. diam., bears S.86°W., 34 lks. dist.,

marked $\frac{1}{4}$ S 2 B T.

78.00 Leave top of ridge, bearing NE. and S.

Descend.

79.96 Intersect 2nd Standard Parallel South, 8.15 chs. E. of the standard cor. of secs. 34 and 35, heretofore described.

Set a sandstone, 24x11x7 ins., 18 ins. in the ground, for closing cor. of secs. 1 and 2, marked CC. on S., with 1 groove on the E. and 5 grooves on the W. face; from which

A cedar, 5 ins. diam., bears S.41°E., 12 lks. dist.,

marked T 11 S R 24. E S 1 B T.

A cedar, 7 ins. diam., bears S.63°W., 12 lks. dist.,

marked T 11 S R 24 E S 2 B T.

SUBDIVISIONS OF T.11 S., R. 24 E.

Chains.

Land mountainous.

Soil rocky; 3d rate.

Timber cedar and pinon.

Mountainous land on 79.96 chs.

August 31: At this cor. I set off 8°37' N. on the decl. arc; and at 12 M., l.m.t. observe the sun on the meridian; the resulting lat. is 39°54' N.

From the corner of secs. 2, 3, 34, and 35 on the S.

bdy. of the Tp.. heretofore described, I run

N.0°01' W. bet. secs. 34 and 35

Descend over rocky land; through scattering cedar and pinon timber.

25.00 Bottom of hollow, 250 ft. deep, course W.

Ascend; leave timber.

38.85 Top of spur projects W.

Begin abrupt descent.

40.00 Set a sandstone 12x8x6 ins. 8 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.

Pits impracticable.

51.00 Bottom of hollow, 200 ft. deep, course W.

Begin abrupt ascent.

78.20 Top of spur projects W. Begin abrupt descent.

Enter scattering cedar and pinon timber.

80.00 Set a sandstone 18x10x4 ins., 12 ins. in the ground for cor. of secs. 26, 27, 34, and 35, marked with 1 notch on the S. and 2 notches on the E. edge; from which

A cedar 12 ins. diam. bears. N. 84° E. 48 lks. dist.
marked T 11 S R 24 E S 26 B T

A cedar 15 ins. diam. bears. S. 17° E. 33 lks. dist.
marked T 11 S R 24 E S 35 B T

SUBDIVISIONS OF T.11 S., R. 24 E.

Chains.	A cedar 6 ins.diam.bears S. 44° W. 45 lks.dist. marked T 11 S R 24 E S 34 B T
	A pinon 4 ins.diam.bears N. 38° W. 16 lks.dist. marked T.11 S R.24 E S 27 B T
	Land mountainous.
	Soil rocky; 3d rate...
	Timber cedar and pinon.
	Mountainous land on 80.00 chs.
<hr/>	
40.00	N. $89^{\circ}59'$ E.on a random line bet.secs.26 and 35 Set temp. $\frac{1}{4}$ sec.cor.
80.06	Intersect N. and S.line 5 lks.N.of the cor.of secs. 25,26,35, and 36. Thence I.run
	N. $89^{\circ}59'$ W.on a true line bet.secs.26 and 35.
	Descend over rocky land.
1.00	Head of hollow, course S. Ascend.
3.50	Top of spur projects SW. Descend.
10.25	Bottom of hollow, 100 ft.deep, course SW. Begin abrupt ascent.
15.00	Top of spur projects S. Begin abrupt descend.
19.00	Bottom of hollow, 100 ft.deep, course S. Begin abrupt ascent.
24.00	Top of spur projects S. Begin abrupt descent.
26.25	Bottom of hollow, 100 ft.deep, course S. Begin abrupt ascent.
33.25	Top of spur projects S. A gilsonite vein, $\frac{1}{4}$ ins.wide, on the South Harrison Lode bears NW. and SE.
38.00	Bottom of hollow 200 ft.deep, course S. Begin abrupt ascent.
40.03	Set a sandstone 20x12x3 ins., 15 ins.in the ground for

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
- 44.00 Top of spur projects S.
Begin abrupt descent.
- 52.00 Bottom of hollow, 150 ft. deep, course S.
Begin abrupt ascent.
- 59.50 Top of ridge bears NE. and SW.
Descend.
Enter scattering cedar and pinon timber.
The cor. of secs. 26-27-34 and 35.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.06 chs.
-
- N. $0^{\circ}01'W.$, bet. secs. 26 and 27.
Descend through scattering cedar and pinon timber.
- 6.50 Bottom of hollow, 150 ft. deep, course W.
Ascend.
- 22.00 Top of ridge bears NW. and SE.
Descend.
- 32.47 A gilsonite vein, 24 ins. wide, on the South Harrison Lode
bears NW. and SE.
- 40.00 Set a sandstone, 15x10x5 ina., 10 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which
A cedar, 8 ins. diam., bears N. $11^{\circ}E.$, 1.39 chs. dist.,
marked $\frac{1}{4}$ S 26 B T.
A cedar, 15 ins. diam., bears N. $67^{\circ}W.$, 1.09 chs. dist.,
marked $\frac{1}{4}$ S 27 B T.
- 41.00 Bottom of hollow, 200 ft. deep, course NW.
Begin abrupt ascent.
- 48.00 Top of spur projects W.
Begin abrupt descent.
- 57.50 Bottom of hollow, 300 ft. deep, course SW.

SUBDIVISIONS OF T. 11 S., R. 24 E.

On hill.

Begin abrupt ascent.

80.00 Set a sandstone, 28x10x8 ins., 21 ins. in the ground, for cor. of secns. 22-23-26 and 27, marked with 2 notches on the S. and E. edges; from which

A pinon, 6 ins. diam., bears N. 61° E., 2 lks. dist.,

marked T 11 S R 24 E S 23 B T

A pinon, 6 ins. diam., bears S. 5° E., 19 lks. dist.,

marked T 11 S R 24 E S 26 B T.

A cedar, 6 ins. diam., bears S. 66° E., 16 lks. dist.,

marked T 11 S R 24 E S 27 B T.

A pinon, 5 ins. diam., bears N. 69° W., 14 lks. dist.,

marked T 11 S R 24 E S 22 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 obs.

August 31, 1904.

September 1: At 7h a.m., l.m.t., I net off 39° 50' N. on the lat.arc; 8° 21' N. on the decl.arc; and determine a meridian with the solar at the cor. of secns. 22-23-26 and 27.

Thence I run

S. 89° 59' N. on a random line bet. secns. 23 and 26.

40.00 Set temp. & nec.cor.

80.04 Intersect N. and S. line, 5 lks. N. of the cor. of secns. 23-24-25 and 26.

Thence I run

N. 89° 57' W., on a true line

bet. secns. 23 and 26.

Ascend through scattering cedar and pinon timber.

14.00 Top of spur projects SW.

Descend.

10.00 Bottom of hollow, 100 ft. deep, courses SW.

Ascend.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- 26.00 Top of spur projects SW.
Descend.
- 34.00 Bottom of hollow, 100 ft. deep, course SW.
Ascend.
- 40.02 Set a sandstone, 20x11x4 ins., 15 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
A cedar, 5 ins. diam., bears N. $50^{\circ}30' E.$, 42 lks. dist.,
marked $\frac{1}{4}$ S. 23 B T.
- A cedar, 4 ins. diam., bears S. $60^{\circ} E.$, 19 lks. dist.,
marked $\frac{1}{4}$ S. 26 BT.
- 40.50 Top of spur projects SW.
Descend.
- 44.00 Bottom of hollow, 100 ft. deep, course SW.
Ascend.
- 52.50 Top of spur projects SW.
Descend.
- 55.12 A gilsonite vein, 22 ins. wide, on the Harrison lode,
bears NW. and SE.
- 60.00 Bottom of hollow, 100 ft. deep, course SW
Ascend.
- 71.00 Top of spur projects S.
- 77.00 Bottom of hollow, 100 ft. deep, course S.
Begin abrupt ascent.
- 80.04 The cor. of secs. 22-23-26 and 27.
Land, mountainous.
Soil; rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.04 chs.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

N. $0^{\circ}01'W.$, bet. secs. 22 and 23.

Ascend abruptly over rocky land through scattering cedar and pinon timber.

18.05 Gilsomite vein, 22 ins. wide, on Harrison Lode, bears NW. and SE.

27.85 Top of ridge bears E. and W.

Descend.

40.00 Set a sandstone, 20x11x3 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which

A cedar, 8 ins. diam., bears S. $13^{\circ}E.$, 82 lks. dist., marked $\frac{1}{4}$ S 23 B T.

A cedar, 7 ins. diam., bears S. $79^{\circ}W.$, 75 lks. dist., marked $\frac{1}{4}$ S 22 B T.

41.00 Bottom of hollow, 75 ft. deep, course NW.; ascend.

46.00 Top of ridge bears NW. and SE. Descend.

75.00 Bottom of hollow, 100 ft. deep, course NW.

Ascend.

80.00 Set a sandstone, 24x11x7 ins., 18 ins. in the ground, for cor. of secs. 14-15-22 and 23, marked with 3 notches on the S. and 2 notches on the E. edge; from which

A pinon, 6 ins. diam., bears N. $77^{\circ}E.$, 50 lks. dist., marked T 11 S R 24 E S 14 B T.

A cedar, 5 ins. diam., bears S. $34^{\circ}E.$, 69 lks. dist., marked T 11 S R 24 E S 23 B T.

A cedar, 5 ins. diam., bears S. $4^{\circ}W.$, 58 lks. dist., marked T 11 S R 24 E S 22 B T.

A cedar, 12 ins. diam., bears N. $24^{\circ}W.$, 18 lks. dist., marked T 11 S R 24 E S 15 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

SUBDIVISIONS OF T. 11 S., R. 24 E.

CHAINS

- S. 89° 57' E. on a random line bet. secs. 14 and 23.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.98 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 13-14-23 and 24.
- Thence I run
- N. 89° 56' W. on a true line
- bet. secs. 14 and 23.
- Ascend through dense artemisia.
- 1.00 Enter scattering cedar and pinon timber.
- 11.00 Top of spur projects N.
- Descend.
- 18.00 Bottom of hollow, 100 ft. deep, course N.
- Ascend.
- 24.00 Top of spur projects N.
- Descend.
- 29.00 Bottom of hollow, 100 ft. deep, course N.
- Ascend.
- 39.99 Set a sandstone, 18x12x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which,
- A pinon, 6 ins. diam., bears N. 29° E., 42 lks. dist., marked $\frac{1}{4}$ S 14 B T.
- A cedar, 8 ins. diam., bears S. 75° W., 6 lks. dist., marked $\frac{1}{4}$ S 23 B T.
- 43.00 Top of ridge bears NW. and SE.
- Descend.
- 50.50 Bottom of hollow, 100 ft. deep, course SW.
- Ascend.
- 54.00 Top of rocky spur projects SW.
- Descend.
- 65.00 Wagon road in bottom of east fork of Asphalt Wash, 200 ft. deep, course NW. Wagon road bears NW. and SE.
- Ascend.
- 67.75 Gilsonite vein, 30 ins. wide, bears NW. and SE..
- 76.30 Top of spur projects NW.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS	
	Descend.
79.98	The cor. of secs. 14-15-22 and 23. Land, mountainous. Soil, rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 79.98 chs.
	N. 0° 01' W., bet. secs. 14 and 15. Ascend through scattering cedar and pinon timber, over rocky land.
7.75	Gilsonite vein, 28 ins. wide, on Rainbow Lode, bears NW. and SE.
8.35	Top of spur projects NW. Descend.
11.62	Gilsonite vein, 24 ins. wide, on Pride of West Lode, bears NW. and SE.
14.35	Wagon road, bearing NW. and SE. in bottom of East Fork of Asphalt Wash, 20 ft. deep, course NW. Ascend abruptly.
18.25	Top of spur projects W. Descend.
25.25	Bottom of hollow, 150 ft. deep, course W. Ascend.
32.00	Top of spur projects W. Descend.
39.50	Bottom of hollow, 100 ft. deep, course W. Ascend.
40.00	Set a sandstone, 18x10x3 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which. A cedar, 15 ins. diam., bears S. 18° E., 11 lks. dist., marked $\frac{1}{4}$ S 14 B T. A cedar, 18 ins. diam., bears S. 56° W., 26 lks. dist., marked $\frac{1}{4}$ S 15 B T.
46.00	Top of spur projects W.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS	
	Descend.
73.00	Bottom of hollow, 200 ft. deep, course W.
	Ascend.
79.50	Top of spur projects SW.
	Descend.
80.00	Set a sandstone, 28x15x3 ins., 21 ins. in the ground, for cor. of secs. 10-11-14 and 15, marked with 4 notches on the S. and 2 notches on the E. edge; from which
	A pinon, 5 ins. diam., bears N. 63° E., 66 lks. dist., marked T 11 S R 24 E S 11 B T.
	A cedar, 5 ins. diam., bears S. 73° E., 15 lks. dist., marked T 11 S R 24 E S 14 B T.
	A cedar, 7 ins. diam., bears S. $42^{\circ}30'$ W., 32 lks. dist., marked T 11 S R 24 E S 15 B T.
	A cedar, 5 ins. diam., bears N. 38° W., 93 lks. dist., marked T 11 S R 24 E S 10 B T.
	Land, mountainous.
	Soil: rocky, 3rd rate.
	Timber, cedar and pinon.
	Mountainous land on 80.00 chs.
	Sept. 1: At this cor., I set off $8^{\circ}15'$ N. on the decl. arc; and at 12 M. ^{l.m.t.} , observe the sun on the meridian; the resulting lat. is $39^{\circ}52'$ N.
	S. $89^{\circ}56'$ E. on a random line bet. secs. 11 and 14.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line, 15 lks. S. of the cor. of secs. 11-12-13 and 14.
	Thence I run
	S. $89^{\circ}58'$ W. on a true line
	bet. secs. 11 and 14.
	Descend through scattering cedar and pinon timber.
11.50	Bottom of hollow, 100 ft. deep, course SW.
	Ascend.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- 28.00 Top of spur projects S.
Descend.
- 31.25 Bottom of hollow, 100 ft. deep, course S.
Ascend.
- 40.01 Set a sandstone, 24x8x3 ins., 18 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
A cedar, 8 ins. diam., bears N. 48° W., 5 lks. dist.,
marked $\frac{1}{4}$ S 11 B T.
A cedar, 7 ins. diam., bears S. 40° E., 16 lks. dist.,
marked $\frac{1}{4}$ S 14 B T.
- 41.00 Top of spur projects SW.
Descend.
- 52.00 Bottom of hollow, 100 ft. deep, course SW.
Ascend.
- 58.85 Top of spur projects SW.
Descend.
- 72.00 Bottom of hollow, 100 ft. deep, course SW.
Ascend.
- 78.25 Top of spur projects SW.
Descend.
- 80.02 The cor. of secs. 10-11-14 and 15.
Land, mountainous.
Soil; rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.02 chs.
-
- N. $0^{\circ}01'W.$, bet. secs. 10 and 11.
Descend over rocky land through scattering cedar and
pinon timber.
- 86.00 Bottom of hollow, 100 ft. deep, course SW.
Begin abrupt ascent.
- 96.50 Top of ridge bears NW. and SE.
Descend.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- 40.00 Set a sandstone, 24x12x7 ins., 18 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which
A cedar, 12 ins. diam., bears S.35°E., 28 lks.dist.,
marked $\frac{1}{4}$ S 11 B T.
A pinon, 10 ins. diam., bears N.21°W., 24 lks.dist.,
marked $\frac{1}{4}$ S 10 B T.
- 41.00 Bottom of hollow, 75 ft. deep, course NW.
Ascend.
- 50.00 Top of ridge bears NW. and SE.
Descend.
- 68.00 Bottom of hollow, 150 ft. deep, course NE.
Ascend.
- 76.00 Top of spur projects NE.
Descend.
- 80.00 Set a sandstone, 20x8x8 ins., 15 ins. in the ground, for
cor. of secs. 2-3-10 and 11, marked with 5 notches on the
S. and 2 notches on the E. edge; from which
A pinon, 12 ins. diam., bears N.86°E., 77 lks.dist.,
marked T 11 S R 24 E S 2 B T.
A pinon, 15 ins. diam., bears S.25°E., 96 lks.dist.,
marked T 11 S R 24 E S 11 B T.
A cedar, 18 ins. diam., bears S.47°W., 48 lks.dist.,
marked T 11 S R 24 E S 10 B T.
A cedar, 5 ins. diam., bears N.33°W., 10 lks.dist.,
marked T 11 S R 24 E S 3 B T.
- Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- N. $89^{\circ}58' E.$ on a random line bet. secs. 2 and 11.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.08 Intersect N. and S. line, 7 lks. N. of the cor. of secs. 1-2-11 and 12.
- Thence I run
- N. $89^{\circ}59' W.$, on a true line
bet. secs. 2 and 11.
- Descend over rocky land through scattering cedar and pinon timber.
- 4.25 Bottom of hollow, 100 ft. deep, course NW.
- Ascend.
- 8.00 Top of spur projects N.
- Descend.
- 13.25 Bottom of hollow, 100 ft. deep, course N.
- Ascend.
- 18.00 Top of spur projects N.
- Descend.
- 22.00 Bottom of hollow, 100 ft. deep, course NE.
- Ascend.
- 35.40 Top of ridge bears NW. and SE.
- Begin abrupt descent.
- 40.04 Set a sandstone, 18x12x7 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
- A cedar, 9 ins. diam., bears N. $10^{\circ} E.$, 17 lks. dist.,
marked $\frac{1}{4}$ S 2 B T.
- A cedar, 12 ins. diam., bears S. $34^{\circ} E.$, 8 lks. dist.,
marked $\frac{1}{4}$ S 11 B T.
- 54.00 Bottom of hollow, 200 ft. deep, course NW.
- Begin abrupt ascent.
- 69.20 Top of ridge bears N. and S.
- Begin abrupt descent.
- 75.00 Bottom of hollow, 200 ft. deep, course NW.
- Begin abrupt ascent.
- 79.00 Top of spur projects N.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS	
	Descend.
80.08	The cor. of secs. 2-3-10 and 11. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 80.08 chs.
	The N. bdy. of the Tp. is the 2nd Standard Parallel South; therefore I run
	N. 0° 01' W. on a true line bet. secs. 2 and 3.
	Descend over rocky land through scattering cedar and pinon timber.
5.00	Bottom of hollow, 200 ft. deep, course NW.
	Ascend.
7.10	Top of spur projects W.
	Descend.
17.00	Enter bottom of hollow, 100 ft. deep, course NW. to N. Thence along bottom of hollow.
	Descend.
40.00	Set a sandstone, 24x9x3 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A cedar, 5 ins. diam., bears N. 81° E., 45 lks. dist., marked $\frac{1}{4}$ S 2 B T. A cedar, 15 ins. diam., bears N. 34° W., 18 lks. dist., marked $\frac{1}{4}$ S 3 B T.
58.00	Leave timber.
75.00	Leave bottom of hollow, course N. to NE.
	Ascend.
79.98	Intersect 2nd Standard Parallel South, 8.30 chs. E. of the standard cor. of secs. 33 and 34, heretofore described. Set a sandstone, 24x12x4 ins., 18 ins. in the ground, for closing cor. of secs. 2 and 3, marked CC on S., with 2 grooves on the E. and 4 grooves on the W. face; and

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.
 Pits impracticable.
 Land, mountainous.
 Soil: rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 79.98 chs.

Sept. 1, 1904.

Sept. 2: At 7h a.m., l.m.t., I set off $39^{\circ}49'N.$ on the lat. arc; $7^{\circ}59'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3-4-33 and 34 on the S. bdy. of the Tp., heretofore described.

Thence I run

$N.0^{\circ}02'W.$, bet. secs. 33 and 34.

Over rocky land descend abruptly through scattering cedar and pinon timber.

- 21.00 Bottom of hollow, 400 ft. deep, course NW.
 Begin abrupt ascent.
- 33.50 Top of spur projects SW.
 Descend.
- 38.00 Bottom of hollow, 100 ft. deep, course SW.
 Ascend.
- 40.00 Set a sandstone, 24x12x3 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 51.00 Top of ridge bears NW. and SE.
 Begin abrupt descent.
- 80.00 Set a sandstone, 20x8x4 ins., 15 ins. in the ground, for cor. of secs. 27-28-33 and 34, marked with 1 notch on the S. and 3 notches on the E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 Land, mountainous.
 Soil: rocky, 3rd rate.
 Timber cedar and pinon pine.
 Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- N. $89^{\circ}59' E.$ on a random line bet. secs. 27 and 34.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.06 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 26-27-34 and 35.
- Thence I run
- N. $89^{\circ}59' W.$, on a true line ..
- bet. secs. 27 and 34.
- Descend through scattering cedar and pinon timber,
- 11.00 Bottom of hollow, 200 ft. deep, course SW.
- Begin abrupt ascent.
- 28.00 Top of spur projects SW..
- Begin abrupt descent. Leave timber.
- 36.50 Bottom of hollow, 100 ft. deep, course SW.
- Ascend.
- 40.03 On top of spur, projecting S.
- Set a sandstone, 15x8x5. ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- Pits impracticable.
- 51.00 Bottom of hollow, 300 ft. deep, course NW.
- Begin abrupt ascent.
- 62.50 Top of spur projects N.
- Begin abrupt descent.
- 67.00 Bottom of hollow, 150 ft. deep, course N.
- Begin abrupt ascent.
- 73.20 Top of spur projects N.
- Begin abrupt descent.
- 79.00 Bottom of hollow, 150 ft. deep, course N.
- Begin abrupt ascent.
- 80.06 The cor. of secs. 27-28-33 and 34.
- Land, mountainous.
- Soil: rocky, 3rd rate.
- Timber, cedar and pinon.
- Mountainous land on 80.06 chs.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- N. $0^{\circ}02'W.$, bet. secs. 27 and 28.
- Descend over rocky land.
- 20.00 Bottom of hollow, 400 ft. deep, course NW.
- Begin abrupt ascent.
- 40.00 Set a sandstone, 20x10x8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- Pits impracticable.
- 56.00 Top of spur projects NW.
- Begin abrupt descent.
- 69.00 Bottom of hollow, 300 ft. deep, course SW.
- Begin abrupt ascent.
- 80.00 Set a sandstone, 24x12x3 ins., 18 ins. in the ground, for cor. of secs. 21-22-27 and 28, marked with 2 notches on the S. and 3 notches on the E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- Pits impracticable.
- Land, mountainous.
- Soil: rocky, 3rd rate.
- No timber.
- Mountainous land on 80.00 chs.
-
- S. $89^{\circ}59'E.$ on a random line bet. secs. 22 and 27.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.08 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 22-23-26 and 27.
- Thence I run
- S. $89^{\circ}58'W.$, on a true line
- bet. secs. 22 and 27.
- Ascend abruptly over rocky land through scattering cedar and pinon timber.
- 22.00 Top of spur projects SW.
- Descend.
- 39.50 Bottom of hollow, 100 ft. deep, course SW.

SUBDIVISIONS OF T. 11 N., R. 24 E.

CHAINS

- Ascend.
- 40.04 Set a sandstone, 24x8x4 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which...
- A pinon, 8 ins. diam., bears N. 65° W., 14 chs. dist., marked $\frac{1}{4}$ S 22 B.T.
- A cedar, 15 ins. diam., bears S. 16° W., 1.05 chs. dist., marked $\frac{1}{4}$ S 27 B.T.
- 44.50 Top of spur projects SW.
- Descend.
- 50.00 Bottom of hollow, 100 ft. deep, course SW.
- Ascend.
- 58.00 Top of spur projects SW.
- Descend.
- 65.00 Bottom of hollow, 150 ft. deep, course NW.
- Ascend.
- 69.00 Top of spur projects N.
- Descend.
- Leave timber.
- 69.70 Gilsomite vein, 20 ins. wide, on South Harrison Lode, bears NW. and SE.
- 73.00 Bottom of hollow, 150 ft. deep, course SW.
- Begin abrupt ascent.
- 78.70 Top of spur projects S.
- Descend.
- 80.08 The cor. of secs. 21-22-27 and 28.
- Land, mountainous.
- Soil: rocky, 3rd rate.
- Timber, cedar and pinon.
- Mountainous land on 80.08 chs.
- Sept. 2: At this cor., I set off $7^{\circ}53'$ N. on the decl. arc; and, at 12 M.^{mt}, observe the sun on the meridian; the resulting lat. is $39^{\circ}50'$ N.

SUBDIVISIONS OF T. 11 S., R. 24 E.

CHAINS

N. $0^{\circ}02'$ W., bet. secs. 21 and 22.

- Ascend over rocky land.
- 6.50 Top of ridge bears NE. and SW.
- Begin abrupt descent.
- 18.00 Bottom of hollow, 150 ft. deep, course W.
- Begin abrupt ascent.
- 31.00 Top of spur projects W.
- Descend.
- Enter scattering cedar and pinon timber.
- 37.00 Leave timber.
- 40.00 Set a sandstone, 30x12x7 ins., 22 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- Pits impracticable.
- 52.00 Bottom of hollow, 200 ft. deep, course W.
- Ascend.
- 61.00 Enter scattering cedar and pinon timber.
- 68.00 Top of ridge bears NW. and SE.
- Descend.
- 79.10 Gilsonite vein, 24 ins. wide, on Harrison Lode, bears NW. and SE.
- 80.00 Set a sandstone, 24x12x4 ins., 18 ins. in the ground, for cor. of secs. 15-16-21 and 22, marked with 3 notches on the S. and E. edges; from which
- A cedar, 8 ins. diam., bears N. 30° E., 27 lks. dist., marked T 11 S R 24 E S 15 B T.
- A pinon, 5 ins. diam., bears S. 36° E., 27 lks. dist., marked T 11 S R 24 E S 22 B T.
- A cedar, 8 ins. diam., bears S. 51° W., 75 lks. dist., marked T 11 S R 24 E S 21 B T.
- A cedar, 10 ins. diam., bears N. 10° W., 19 lks. dist., marked T 11 S R 24 E S 16 B T.
- Land, mountainous.
- Soil: rocky, 3rd rate.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- Timber, cedar and pinon.
Mountainous land on 80.00 chs.
- N.89°58' E. on a random line bet. secs. 15 and 22.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.14 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 14-15-22 and 23.
- Thence I run
West, on a true line
bet. secs. 15 and 22.
- Over rocky land descend through scattering cedar and pinon timber.
- 3.50 Bottom of hollow, 100 ft. deep, course NW.
Ascend.
- 8.00 Top of spur projects NW.
Descend.
- 13.00 Bottom of hollow, 100 ft. deep, course NW.
Ascend.
- 28.00 Top of spur projects NW.
Descend.
- 33.00 Bottom of hollow, 100 ft. deep, course NW.
Ascend.
- 40.07 Set a sandstone, 20x13x3 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
A cedar, 12 ins. diam., bears N. 4° W., 48 lks. dist.,
marked $\frac{1}{4}$ S 15 B T.
A cedar, 10 ins. diam., bears S. 1° 30' W., 21 lks. dist.,
marked $\frac{1}{4}$ S 22 B T.
- 42.50 Top of spur projects NW.
Begin abrupt descent.
- 48.00 Elbow in hollow, 100 ft. deep, course NW. to SW.
Ascend abruptly.
- 54.00 Top of rocky spur projects S.
Begin abrupt descent.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS	
60.00	Bottom of hollow, 150 ft. deep, course NW. Begin abrupt ascent.
64.80	Top of spur projects NW. Begin abrupt descent.
70.00	Bottom of hollow, 150 ft. deep, course NW. Begin abrupt ascent.
74.00	Top of spur projects NW. Descend.
80.14	The cor. of secs. 15-16-21 and 22. Land, mountainous. Soil; rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 80.14 chs.
<hr/>	
	N.0°02'W., bet. secs. 15 and 16.
	Descend over rocky land through scattering cedar and pinon timber.
6.00	Bottom of hollow, 100 ft. deep, course NE. Begin abrupt ascent.
11.40	Top of spur projects NE. Begin abrupt descent.
40.00	Set a sandstone, 20x12x10 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which A cedar 18 ins. diam., bears N.32°E., 92 lks. dist., marked $\frac{1}{4}$ S 15 B T. A cedar, 10 ins. diam., bears S.12°W., 96 lks. dist., marked $\frac{1}{4}$ S 16 B T.
46.50	Wagon ^{road} bears NW. and SE., in bottom of east fork of Asphalt Wash, 400 ft. deep, course NW. Begin abrupt ascent.
52.40	Top of spur projects SW. Descend.
57.00	Bottom of hollow, 100 ft. deep, course SW. Ascend.

SUBDIVISIONS OF T. 11 S., R. 24 E.

CHAINS

- 61.00 Top of spur projects SW.
Descend.
65.89 Gilsonite vein, 36 ins. wide, on Pride of West Lode, bears NW. and SE.
70.00 Bottom of hollow, 150. ft. deep, course SW.
Begin abrupt ascent.
80.00 Set a sandstone, 28x14x6 ins., 21 ins. in the ground, for cor. of secs. 9-10-15 and 16, marked with 4 notches on the S. and 3 notches on the E. edge; from which
A cedar, 8 ins. diam., bears N. 38° E., 32 lks. dist.,
marked T 11 S R 24 E S 10 B T.
A cedar, 8 ins. diam., bears S, 2° E., 71 lks. dist.,
marked T 11 S R 24 E S 15 B T.
No other trees within limits; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.00 chs.

Sept. 2. 1904.

- Sept. 3: At 7h a.m., l.m.t., I set off $39^{\circ}52'N.$ on the lat. arc; $7^{\circ}37'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9-10-15 and 16.
Thence I run
East on a random line bet. secs. 10 and 15.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.96 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 10-11-14 and 15.
Thence I run
N. $89^{\circ}58'W.$, on a true line
bet. secs. 10. and 15.
Descend through scattering cedar and pinon timber.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- 6.00 Bottom of hollow, 100 ft. deep, course SW.
Descend over broken land.
- 24.00 Top of ridge bears NE. and SW.
Descend.
- 31.00 Bottom of hollow, 150 ft. deep, course SW.
Ascend.
- 39.98 Set a sandstone, 20x12x8 ins., 15 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face; from which
A pinon, 12 ins. diam., bears N. 35° E., 85 lks. dist.,
marked $\frac{1}{4}$ S 10 B T.
A pinon, 10 ins. diam., bears S. 29° E., 24 lks. dist.,
marked $\frac{1}{4}$ S 15 B T.
- 40.50 Ridge bears NE. and SW.
46.00 Bottom of hollow, 100 ft. deep, course SW.
Ascend over broken and rocky land.
- 74.00 Top of rocky spur projects SW.
Begin abrupt descent.
- 78.75 Bottom of hollow, 150 ft. deep, course SW.
Begin abrupt ascent.
- 79.96 The cor. of secs. 9-10-15 and 16.
Land, mountainous.
Soil, rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 79.96 chs.
-
- N. 0° 02' W., bet. secs. 9 and 10.
- Ascend over rocky land through heavy cedar and pinon timber.
- 81.75 Top of ridge bears E. and W.
Descend.
- 89.00 Bottom of hollow, 100 ft. deep, course W.
Begin abrupt ascent.
- 40.00 Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which
A cedar, 10 ins. diam., bears S. 53° E., 10 lks. dist.,
marked $\frac{1}{4}$ S 10 B T

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- A cedar, 7 ins. diam., bears S.62°W., 37 lks. dist., marked $\frac{1}{4}$ S 9 B T.
- 44.75 Top of ridge bears E. and W.
Descend.
- 54.00 Bottom of hollow, 150 ft. deep, course NE.
Ascend.
- 59.50 Top of spur projects NE.
Begin abrupt descent.
- 80.00 Set a sandstone, 28x10x3 ins., 21 ins. in the ground, for cor. of secs. 3-4-9 and 10. marked with 5 notches on the S. and 3 notches on the E. edge; from which
A cedar, 4 ins. diam., bears S.54°W., 47 lks. dist., marked T 11 S R 24 E S 9 B T.
A cedar, 6 ins. diam., bears N.86°W., 34 lks. dist., marked T 11 S R 24 E S 4 B T.
No other trees within limits; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous and heavily timbered land on 80.00 chs.
-
- S.89°58' E. on a random line bet. secs. 3 and 10.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.16 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 2-3-10 and 11.
Thence I run
N.89°57' W., on a true line
bet. secs. 3 and 10.
Descend over rocky land through scattering cedar and pinon timber.
- 5.50 Bottom of hollow, 150 ft. deep, course N.
Begin abrupt ascent.

SUBDIVISIONS OF T. 11 S., R. 24 E.

CHAINS

- 18.00 Top of ridge bears NW. and SE.
Descend.
27.00 Bottom of hollow, 200 ft. deep, course SW.
Begin abrupt ascent.
40.08 On top of spur, projecting SW.,
Set a sandstone, 24x8x3 ins., 18 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
A cedar, 8 ins. diam., bears N. 30° W., 26 lks. dist.,
marked $\frac{1}{4}$ S 3 B T.
A cedar, 6 ins. diam., bears S. 56° W., 35 lks. dist.,
marked $\frac{1}{4}$ S 10 B T.
73.00 Bottom of hollow, 200 ft. deep, course NW.
Ascend.
80.16 The cor. of secs. 3-4-9 and 10.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.16 chs.

The N. bdy of the Tp. is the 2nd Standard Parallel South.
Therefore I run

N. $0^{\circ}02'$ W., on a true line

bet. secs. 3 and 4.

Descend over rocky land through scattering cedar and
pinon timber.

- 6.00 Bottom of hollow, 150 ft. deep, course NW.
40.00 Set a sandstone, 20x8x4 ins., 15 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which

A cedar, 6 ins. diam., bears N. 62° E., 8 lks. dist.,
marked $\frac{1}{4}$ S 3 B T.

A cedar, 9 ins. diam., bears S. 67° W., 64 lks. dist.,
marked $\frac{1}{4}$ S 4 B T.

- 64.00 Junction of ridge, bearing NW. and SE., with a rocky
spur, projecting N.
Thence along top of spur.

SUBDIVISIONS OF T 11 S R 24 E

Chains.	Descend.
79.89	<p>Intersect 2nd Standard Parallel South, 8.16 chs.E. of the standard cor.of secs.32 and 33,</p> <p>Set a sandstone 18x12x4 ins., 12 ins.in the ground, for closing cor.of secs.3 and 4, marked CC on S., with 3 grooves on the E.and W.faces; from which</p> <p>A cedar 6 ins.diam.bears S.24°E. 37 lks.dist. marked T 11 S R 24 E S 3 B T</p> <p>A cedar 4 ins.diam.bears S.0°30'W.,18 lks.dist. marked T 11 S R 24 E S 4 B T</p> <p>Land.mountainous.</p> <p>Soil.rocky, 3rd.rate.</p> <p>Timber cedar and pinon.</p> <p>Mountainous land on 79.89 chs.</p> <p>Sept.3: At this cor.I set off 7°31'N.on the decl. arc; and at 12 M.l.m.t.observe the sun on the meridian; the resulting lat.is 39°53'N.</p> <hr/>
9.00	From the corner to secs.4,5,32, and 33 on S.bdy.of Tp., heretofore described, I run
19.00	N.0°03'W.bet.secs.32 and 33
23.50	Descend over rocky land.
33.30	Bottom of hollow, 100 ft.deep, course E.
37.00	Top of spur projects E. Descend.
40.00	Bottom of hollow, 100 ft.deep, course NE. Ascend.
	Gilsonite vein, 20 ins.wide, on Nigger Baby Lode, bears NW.and SW.
	Top of ridge bears NE. and SW. Descend.
	Set a sandstone 18x12x5 ins.,12 ins.in the ground, for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft.base 1 $\frac{1}{2}$ ft.high W.of cor.
	Pits impracticable.

SUBDIVISIONS OF T.11 S., R.34 E.

Chainaz. 63.50	Bottom of hollow, 75 ft. deep, course NE.
.	Ascend.
66.00	Top of spur projects E.
.	Descend.
71.50	Bottom of hollow, 100 ft. deep, course NW.
.	Ascend.
74.50	Top of spur projects W.
.	Descend.
80.00	Set a sandstone 24x8x6 ins., 18 ins. in the ground, for cor. of secs. 28, 29, 32, and 33, marked with 1 notch on the S. and 4 notches on the N. edge; and raise a round of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. It's impracticable.
.	Land mountainous.
.	Soil rocky; 3d rate.
.	No timber.
.	Mountainous land on 80.00 chs.

	W. $89^{\circ}59' E.$ on a random line bet. secs. 28 and 33
40.00	Set temp. $\frac{1}{2}$ sec. cor.
79.00	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 27, 28, 33, and 34.
.	Thence I run
	W. $89^{\circ}59' W.$ on a true line bet. secs. 28 and 33,
.	Ascend abruptly over shale rock.
5.00	Top of spur projects N.
.	Descend.
7.50	Bottom of hollow, 100 ft. deep, course N.
.	Ascend.
11.00	Top of spur projects N.
.	Begin abrupt descent.
16.00	Bottom of hollow, 100 ft. deep, course NW.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS	
	Ascend.
32.00	Top of spur projects N.
	Descend.
37.00	Bottom of hollow, 150 ft. deep, course NE.
	Ascend.
39.95	Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
44.00	Top of spur projects NE.
	Begin abrupt descent.
56.75	Bottom of Center Fork of Asphalt Wash, 400 ft. deep, course N.
	Begin abrupt ascent.
71.30	Top of spur projects N.
	Begin abrupt descent.
79.90	The cor. of secs. 28-29-32 and 33.
	Land, mountainous.
	Soil: rocky, 3rd and 4th rate.
	No timber.
	Mountainous land on 79.90 chs.

	N. 0°03' W., bet. secs. 28 and 29.
0.75	Descend over rocky land.
	Bottom of hollow, 150 ft. deep, course NE.
	Begin abrupt ascent.
25.75	Top of rocky spur projects NE.
	Descend.
31.00	Bottom of hollow, 75 ft. deep, course NE.
	Ascend.
	Enter scattering cedar and pinon timber.
36.50	Top of spur projects NE.
	Descend.
40.00	Set a sandstone, 15x10x6 ins., 10 ins. in the ground, for

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

	$\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face: from which A cedar, 5 ins. diam., bears N. 13° E., 19 lks.dist., marked $\frac{1}{4}$ S 28 B T.
	A cedar, 6 ins. diam., bears S. 73° W., 18 lks.dist., marked $\frac{1}{4}$ S 29 B T.
41.25	Bottom of hollow, 100 ft. deep, course E. Begin abrupt ascent. Leave timber.
44.00	Top of ridge bears NE. and SW. Descend.
51.00	Bottom of hollow, 100 ft. deep; course NE. Ascend.
58.00	Top of spur projects NE. Descend.
65.00	Bottom of hollow, 100 ft. deep, course NE. Begin abrupt ascent.
74.50	Top of spur projects NE. Begin abrupt descent.
80.00	Set a sandstone, 20x15x5 ins., 15 ins. in the ground, for cor. of secs. 20-21-28 and 29, marked with 2 notches on the S. and 4 notches on the E. edge: and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 80.00 chs.

Sept. 3, 1904.

Sept. 4: At 7h a.m., l.m.t., I set off $39^{\circ}50'$ N. on the lat.
arc: $7^{\circ}15'$ N. on the decl. arc: and determine a meridian
with the solar at the cor. of secs. 20-21-28 and 29.
Thence I run

SUBDIVISIONS OF T. 11 S., R. 24 E.

CHAINS

	S.89°59'E., on a random line bet. secs. 21 and 28..
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. and S. line, 5 lks. S. of the cor. of secs 21-22-27 and 28. Thence I run
	S.89°59'W., on a true line bet. secs. 21 and 28..
	Descend abruptly over rocky land.
9.00	Bottom of hollow, 200 ft. deep, course SW.
	Begin abrupt ascent.
18.90	Top of spur projects S.
	Begin abrupt descent.
40.03	Set a sandstone, 24x15x5 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
53.25	Bottom of Center Fork of Asphalt Wash, 400 ft. deep, course N. Begin abrupt ascent..
58.00	Top of spur projects NE. Begin abrupt descent.
61.50	Bottom of hollow, 100 ft. deep, course NE. Begin abrupt ascent.
71.50	Top of rocky spur projects SE. Begin abrupt descent.
77.00	Bottom of hollow, 150 ft. deep, course SE. Begin abrupt ascent.
80.06	The cor. of secs. 20-21-28 and 29. Land, mountainous. Soil; rocky, 3rd rate. Timber, none. Mountainous land on 80.06 chs.

SUBDIVISIONS OF T. 11 S., R. 24 E.

CHAINS

- N., $0^{\circ}03'W.$, bet. secs. 20 and 21.
 Descend abruptly over rocky land.
 1.75 Bottom of hollow, 100 ft. deep, course SE.
 Begin abrupt ascent.
 4.50 Top of spur projects SE.
 Descend.
 9.00 Bottom of hollow, 50 ft. deep, course E.
 Ascend.
 15.00 Top of spur projects E.
 Begin abrupt descent.
 40.00 Set a sandstone, 20x12x8 ins., 15 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of
 stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 40.50 Bottom of hollow, 150 ft. deep, course NE.
 Begin abrupt ascent.
 47.00 Top of spur projects E.
 Begin abrupt descent.
 52.00 Bottom of hollow, 150 ft. deep, course E.
 Begin abrupt ascent.
 65.50 Top of spur projects NE.
 Descend.
 80.00 Set a sandstone, 24x10x6 ins., 18 ins. in the ground, for
 cor. of secs. 16-17-20 and 21, marked with 3 notches on the
 S. and 4 notches on the E. edge; from which
 A lone cedar, 6 ins. diam., bears $N.24^{\circ}E.$, 1.05 chs. dist.
 marked T 11 S R 24 E S 16 B T.
 No other trees within limits; and raise a mound of
 stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 Land, mountainous.
 Soil: rocky, 3rd rate.
 No timber.
 Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS	
	N. $89^{\circ}59' E.$ on a random line bet. secs. 16 and 21.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.04	Intersect N. and S. line, 7 lks. N. of the cor. of secs. 15-16-21 and 22. Thence I run N. $89^{\circ}58' W.$, on a true line bet. secs. 16 and 21. Descend through scattering cedar and pinon timber.
1.35	Gilsonite vein, 24 ins. wide, on Harrison Lode, bears NW. and SE.
3.50	Bottom of hollow, 100 ft. deep, course N. Ascend.
6.00	Top of ridge bears NE. and SW. Descend.
11.00	Bottom of hollow, 100 ft. deep, course N. Ascend.
18.00	Top of ridge bears NW. and SE. Descend abruptly. Leave timber.
40.02	Set a sandstone, 24x6x6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
47.00	Bottom of Center fork of Asphalt Wash, 300 ft. deep, course N. Begin abrupt ascent.
80.04	The line of secs. 16, 17, 20, and 21. Land mountainous. Soil rocky; 3d rate. Timber cedar and pinon pine. Mountainous land on 80.04 c.
	N. $0^{\circ}03' W.$, bet. secs. 16 and 17. Descend over rocky land through scattering cedar and pine timber.
16.00	Leave timber.
40.00	Set a sandstone, 36x14x8 ins., 27 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; and raise a mound of

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
- 49.70 Bottom of Center Fork of Asphalt Wash, 400 ft. deep, course NW.
 Note: A well, belonging to the St. Louis Gilsonite Co., about 60 ft. deep, bears W., 1.00 chs. dist.
 A gilsonite vein, 24 ins. wide, on Harrison Lode, bears NW. and SE. Ascend abruptly.
- 54.80 Top of spur projects W.
- 64.85 Wagon road, bearing NE. and SW., in bottom of East Fork of Asphalt Wash, 300 ft. deep, course SW.
 Begin abrupt ascent.
- 80.00 Set a sandstone, 28x10x5 ins., 21 ins. in the ground, for cor. of secs. 8-9-16 and 17, marked with 4 notches on the S. and E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 Land, mountainous.
 Soil: rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 80.00 bs.
 Sept. 4th: At this cor., I set off $7^{\circ}09'$ on the decl. arc; and at 11h 59m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is $39^{\circ}52'N$.
-
- S. $89^{\circ}58'W$. on a random line bet. secs. 9 and 16.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.06 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 9-10-15 and 16.
 Thence I run
 S. $89^{\circ}59'W$. on a true line
 bet. secs. 9 and 16.
 Ascend abruptly over rocky land through scattering cedar and pinon timber.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS	
2.00	Top of spur projects S. Descend.
5.00	Bottom of hollow, 100 ft. deep, course S. Ascend abruptly.
7.30	Top of spur projects S. Begin abrupt descent.
24.81	Gilsonite vein, 48 ins. wide, on Pride of the West Lode, bears NW. and SE.
26.00	Bottom of hollow, 200 ft. deep, course SW. Ascend.
38.50	Top of spur projects S. Descend.
40.03	Set a sandstone, 20x12x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sed. cor., marked $\frac{1}{4}$ on N. face; from which A cedar, 9 ins. diam., bears S. 45° E., 3 lks. dist., marked $\frac{1}{4}$ S 16 B T. No other trees within limits; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
45.50	Bottom of hollow, 150 ft. deep, course S. Begin abrupt ascent.
72.00	Top of spur projects S. Descend.
80.06	The cor. of secs. 8-9-16 and 17. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 80.06 chs.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

N.0°03'W., bet. secs. 8 and 9.

- Descend over rocky land.
- 8.00 Bottom of hollow, 100 ft. deep, course W.
- Begin abrupt ascent over broken land.
- Enter scattering cedar and pinon timber.
- 31.00 Top of spur projects SW.
- Descend.
- 35.86 Gilsonite vein, 46 ins. wide, on Pride of the West Lode
bears NW. and SE.
- 37.00 Bottom of hollow, 100 ft. deep, course W.
- Ascend.
- 40.00 Point for $\frac{1}{4}$ sec.cor., falls on a sandstone ledge; cut a
cross(x) at exact cor. point, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$
on west side of cross; and raise a mound of stone, 2
ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
From this $\frac{1}{4}$ sec.cor., United States Location Monument
No. 10, which is a cedar post 5 ft. long, 6 ins. square,
marked and witnessed as described by the surveyor general
bears N.75°36'W.
- 43.00 Top of spur projects SW.
- Begin abrupt descent.
- 57.00 Bottom of hollow, 150 ft. deep, course SW.
- Begin abrupt ascent.
- 66.75 From this point United States Location Monument, No.
10, bears S.43°15'W.
- 67.00 Top of ridge bears E. and W.
- Descend.
- 80.00 Set a sandstone, 24x10x6 ins., 18 ins. in the ground, for
cor. of secs. 4-5-8 and 9, marked with 5 notches on the
S. and 4 notches on the E. edge; from which
A cedar, 4 ins. diam., bears N.33°E., 46 lks. dist.,
marked T 11 S R 24 E S 4 B T.
A cedar, 4 ins. diam., bears S.75°E., 67 lks. dist.,

SUBDIVISIONS OF T. 11 S., R. 24 E.

CHAINS

marked T 11 S R 24 E S 9 B T.

No other trees within limits; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

N. $89^{\circ}59' E.$ on a random line bet. secs. 4 and 9.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.06 Intersect N. and S. line, 7 lks. N. of the cor. of secs. 3-4-9 and 10.

Thence I run

N. $89^{\circ}58' W.$, on a true line
bet. secs. 4 and 9.

Ascend abruptly over rocky land through scattering cedar and pinon timber.

12.20 Top of spur projects NW.

Descend.

22.00 Bottom of hollow, 150 ft. deep, course NW.

Ascend.

28.60 Top of ridge bears NW. and SE.

Begin abrupt descent.

39.00 Bottom of hollow, 100 ft. deep, course NW.

Ascend.

40.03 Set a sandstone, 15x12x3 ins., 10 ins. in the ground, for

$\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

A cedar, 7 ins. diam., bears N. $68^{\circ} W.$, 74 lks. dist.,

marked $\frac{1}{4}$ S 4 B T.

A cedar, 14 ins. diam., bears S. $80^{\circ} W.$, 1.14 chs. dist.,

marked $\frac{1}{4}$ S 9 B T..

47.25 Top of spur projects NW.

Descend.

SUBDIVISIONS OF T. 11 S., R. 24 E.

CHAINS

53.00	Bottom of hollow, 100 ft. deep, course N. Begin abrupt ascent.
73.00	Top of spur projects NW. Descend.
80.00	The cor. of secn. 4-5-8 and 9. Land mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 80.00 chs.
	The S. bdy. of the Tp. is the 2nd Standard Parallel South. Therefore I run line N. 0° 03' E., on a true line bet. secn. 4 and 5. Descend over rocky land through scattering cedar and pinon timber.
40.00	Set a sandstone, 24x9x3 ins., 18 ins. in the ground, for sec. cor., marked $\frac{1}{2}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
43.00	Bottom of hollow, 150 ft. deep, course NW. Ascend.
47.00	Top of spur projects NW. Descend.
51.00	Bottom of hollow, 100 ft. deep, course W. Ascend.
58.00	Top of ridge bears NW. and SE. 18 ins. in the ground. Descend.
72.01	Intersect 2nd Standard Parallel South, 8.13 chs. E. of the standard cor. of secns. 31 and 32, heretofore described. Set a sandstone, 18x10x5 ins., 12 ins. in the ground, for cloning cor. of secns. 4 and 5, marked CC on S., with 4 grooves on the N. and 2 grooves on the W. face; from which

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

A cedar, 24 ins. diam., bears S.63°E., 23 lks. dist., marked T 11 S R 24 E S.4 B T.

A cedar, 12 ins. diam., bears S.56°W., 25 lks. dist., marked T 11 S R 24 E S 5 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 79.91 chs.

Sept. 4, 1904.

Sept. 5: At 7h a.m., l.m.t., I set off 39°49'N. on the lat. arc; 6°53'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5-6-31 and 32, on the S. bdy. of the Tp., heretofore described.

Thence I run

N.0°03'W., bet. secs. 31 and 32.

Descend over rocky land through scattering cedar and pinon timber.

4.00 Bottom of hollow, 50 ft. deep, course E.

Ascend.

16.00 Top of ridge bears NE. and SW.

Descend.

25.00 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

33.00 Top of spur projects NE.

Descend.

40.00 Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which

A cedar, 10 ins. diam., bears N.52°E., 42 lks. dist., marked $\frac{1}{4}$ S 32 B T.

A cedar, 8 ins. diam., bears S.59°W., 21 lks. dist., marked $\frac{1}{4}$ S 31 B T.

49.50 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- 65.00 Top of spur projects NE.
 Descend.
 69.00 Leave timber.
 80.00 Set a sandstone, 20x14x8 ins., 15 ins. in the ground, for cor. of secs. 29-30-31 and 32, marked with 1 notch on the S. and 5 notches on the E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 Land, mountainous.
 Soil: rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 80.00 chs.
-
- N. $89^{\circ}59'$ E. on a random line bet. secs. 29 and 32.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 28-29-32 and 33.
 Thence I run
 N. $89^{\circ}57'$ W., on a true line
 bet. secs. 29 and 32.
 Descend over rocky land.
 0.30 Bottom of hollow, 150 ft. deep, course NE.
 Ascend over broken land.
 25.00 Enter scattering cedar and pinon timber.
 34.00 Leave timber.
 40.04 Set a sandstone, 19x15x7 ins., 13 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Pits impracticable.
 48.00 Top of ridge bears NE. and SW.
 Descend.
 62.00 Bottom of hollow, 100 ft. deep, course NW.
 Begin abrupt ascent.
 69.00 Top of spur projects N.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS	
	Descend.
78.00	Bottom of hollow, 100 ft. deep, course N..
	Ascend.
78.23	Gilsonite vein, 50 ins. wide, on Nigger Baby Lode, bears NW. and SE.
80.08	The cor. of secs. 29-30-31 and 32..
	Land, mountainous..
	Soil: rocky, 3rd rate.
	Timber, cedar and pinon.
	Mountainous land on 80.08 chs.
	S. 89° 59' W. on a random line bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
77.58	Intersect W. bdy. of the Tp., 5 lks. N. of the cor. of secs. 25-30-31 and 36, heretofore described.
	Thence I run .
	N. 89° 57' E., on a true line
	bet. secs. 30 and 31.
	Over rocky land ascend through scattering cedar and pinon timber.
32.00	Top of ridge bears NW. and SE..
	Descend.
37.58	Set a sandstone, 20x10x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
	A cedar, 18 ins. diam., bears N. 74° W., 29 lks. dist., marked $\frac{1}{4}$ S 30. B T.
	A cedar, 8 ins. diam., bears S. 24° W., 60 lks. dist., marked $\frac{1}{4}$ S 31 B T.
39.00	Bottom of hollow, 100 ft. deep, course N..
	Ascend.
55.75	Top of spur projects N..
	Descend.
	Leave timber.
77.58	The cor. of secs. 29-30-31 and 32.

SUBDIVISIONS OF T. 11 S., R. 24 E.

CHAINS

- Land, mountainous.
 Soil: rocky, 3rd rate..
 Timber, cedar and pinon.
 Mountainous land on 77.58 chs.
-
- N.0°03'W., bet. secs. 29 and 30.
- Descend through dense artemisia..
- 1.00 Gilsonite vein, 50 ins. wide, on Nigger Baby Lode, bears NW. and SE.
- 25.00 Bottom of hollow, 100 ft. deep, course NW.
- Ascend.
- 35.00 Top of ridge bears NW. and SE.
- Descend.
- 40.00 Set a sandstone, 24x10x6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- Pits impracticable.
- 48.00 Enter scattering cedar and pinon timber.
- 75.00 Bottom of hollow, 100 ft. deep, course W.
- Ascend.
- 80.00 Set a sandstone, 20x12x6 ins., 15 ins. in the ground, for cor. of secs. 19-20-29 and 30, marked with 1. notch on the S. and 5 notches on the E. edge; from which
- A cedar, 12 ins. diam., bears N.55°E., 80 lks. dist., marked T 11 S R 24 E S 20 B T.
- A cedar, 8 ins. diam., bears S.73°E., 37 lks. dist., marked T. 11 S. R. 24 E. S. 29 B. T.
- A cedar, 10 ins. diam., bears S.77°W., 32 lks. dist., marked T. 11 S. R. 24 E. S. 30 B. T.
- A cedar, 8 ins. diam., bears N.31°W., 1.42 chs. dist., marked T 11 S R 24 E S 19 B T.
- Land, mountainous.
- Soil: rocky, 3rd rate..
- Timber, cedar and pinon.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- Mountainous land on 80.00 chs.
-
- S.89°57'E. on a random line bet. secs. 20 and 29.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.90 Intersect N. and S. line, 9 lks. S. of the cor. of secs. 20-21-28 and 29.
- Thence I run
- S.89°59'W., on a true line
bet. secs. 20 and 29.
- Ascend abruptly over rocky land.
- 11.00 Top of ridge bears NE. and SW.
- Descend.
- Enter scattering cedar and pinon timber.
- 20.25 Bottom of hollow, 100 ft. deep, course N.
- Ascend.
- 39.00 Top of spur projects NE.
- Descend.
- 39.95 Set a sandstone, 28x12x3 ins., 21 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
- A cedar, 5 ins. diam., bears N. 61°E., 35 lks. dist.,
marked $\frac{1}{4}$ S 20 B T.
- A cedar, 15 ins. diam., bears S. 24°W., 27 lks. dist.,
marked $\frac{1}{4}$ S 29 B T.
- 43.25 Bottom of hollow, 100 ft. deep, course N.
- Ascend.
- 49.00 Top of ridge bears N. and S.
- Descend..
- 79.90 The cor. of secs. 19-20-29 and 30.
- Land, mountainous.
- Soil: rocky, 3rd rate.
- Timber, cedar and pinon.
- Mountainous land on 79.90 chs.
- Sept. 5: At this cor., I set off 6°47'N. on the decl. arc; and at 11h 59m a.m., l.m.t., observe the sun on the

SUBDIVISIONS OF T-11 S., R. 24 E.

CHAINS

meridian; the resulting lat. is $39^{\circ}50'N.$

S. $89^{\circ}57'W.$ on a random line bet. secs. 19 and 30.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

77.55 Intersect W. bdy. of the Tp., 5 miles S. of the cor. of secs. 19-24-25 and 30, heretofore described.

Thence I run

N. $89^{\circ}59'E.$ on a true line

bet. secs. 19 and 30.

Descend over rocky land through scattering cedar and pinon timber.

2.500 Bottom of hollow, 150 ft. deep, course NE.

Ascend. Numerous cuttings taken off top of spur.

6.10 Top of spur projects NE. Cut and portion removed again. Descend.

12.75 Bottom of hollow, 100 ft. deep, course N.

Ascend.

19.50 Top of spur projects N.

Descend.

34.50 Bottom of hollow, 150 ft. deep, course N.

Leave timber.

37.55 Set a sandstone, 20x10x4 ins., 15 ins. in the ground, for

$\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

43.00 Top of spur projects N.

Enter scattering cedar and pinon timber.

Descend.

59.50 Bottom of hollow, 100 ft. deep, course N.

Ascend.

66.50 Top of spur projects S.

Descend.

70.50 Bottom of hollow, 75 ft. deep, course S.

Ascend.

SUBDIVISIONS OF T. 11 S., R. 24 E.

CHAINS	
77.55	The cor. of secs. 19-20-29 and 30. Land, mountainous. Soil; rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 77.55 chs.
	N. 0° 03' W., bet. secs. 19 and 20. Over rocky land ascend through scattering cedar and pinon timber.
29.20	Top of ridge bears NW. and SE. Descend.
40.00	Set a sandstone, 24x10x3 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A cedar, 9 ins. diam., bears east, 24 lks. dist., marked $\frac{1}{4}$ S 20 B T. A cedar, 16 ins. diam., bears N. 74° W., 34 lks. dist., marked $\frac{1}{4}$ S 19 B T.
45.00	Bottom of hollow, 150 ft. deep, course NW. Ascend.
50.75	Gilsonite vein, 20 ins. wide, on South Harrison Lode, bears NW. and SE. Top of ridge bears NW. and SE. Descend.
62.00	Bottom of hollow, 100 ft. deep, course W. Ascend.
65.00	Top of spur projects W. Descend.
69.00	Head of hollow, course NW. Ascend.
77.00	Top of spur projects NW. Descend.
80.00	Set a sandstone, 24x12x3 ins., 18 ins. in the ground, for cor. of secs. 17-18-19 and 20, marked with 3 notches on the S. and 5 notches on the E. edge; raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.

SUBDIVISIONS OF T. 11 S., R. 24 E.

CHAINS

A cedar, 4 ins. diam., bears N. $82^{\circ}30'$ E., 79 lks. dist.,
marked T 11 S R 24 E S 17 B T.

A cedar, 5 ins. diam., bears S. $36^{\circ}30'$ E., 87 lks. dist.,
marked T 11 S R 24 E S 20 B T.
No other bearing trees within limits.
Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

N. $89^{\circ}59'$ E. on a random line bet. secs. 17 and 20.

79.96 Intersect N. and S. line, 5 lks. N. of the cor. of secs.

16-17-20 and 21.

Thence I run

N. $89^{\circ}59'$ W., on a true line

bet. secs. 17 and 20.

Ascend over rocky land.

2.50 Top of spur projects N.

Descend.

Enter scattering cedar and pinon timber.

13.50 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

39.98 Set a sandstone, 18x12x6 ins., 12 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

A cedar, 15 ins. diam. bears N. $70^{\circ}W.$, 23 lks. dist.,
marked $\frac{1}{4}$ S 17 B T.

A cedar, 15 ins. diam., bears S. $61^{\circ}E.$, 50 lks. dist.,
marked $\frac{1}{4}$ S 20 B T.

45.00 Top of spur projects N.

Descend.

49.00 Bottom of hollow, 100 ft. deep, course N.

Ascend.

55.00 Top of ridge bears NW. and SE.

Descend.

74.00 Bottom of hollow, 100 ft. deep, course NW.

SUBDIVISIONS OF T. 11 S., R. 24 E.

CHAINS	
	Ascend.
79.96	The cor. of secs. 17-18-19 and 20. Land, mountainous. Soil; rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 79.96 chs.
	S. 89° 59' W. on a random line bet. secs. 18 and 19.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
77.47	Intersect W. bdy. of the Tp., 5 lks. S. of the cor. of secs. 13-18-19 and 24, heretofore described. Thence I run
	S. 89° 59' E., on a true line bet. secs. 18 and 19.
5.75	Top of ridge bears NW. and SE. Begin abrupt descent.
28.30	Bottom of hollow, 200 ft. deep, course N. Ascend.
29.55	Gilsonite vein, 20. ins. wide, on South Harrison Lode, bears NW. and SE.
37.47	Set a sandstone, 20x10x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
47.35	Top of spur projects NW. Descend.
54.00	Bottom of hollow, 100 ft. deep, course NW. Ascend.
	Enter scattering cedar and pinon timber.
77.00	Top of spur projects N. Descend.
77.47	The cor. of secs. 17-18-19 and 20. Land, mountainous. Soil; rocky, 3rd rate. Timber scattering cedar and pinon pine.

SUBDIVISIONS OF T. 11 S., R. 24 E.

CHAINS

Mountainous land on 77.47 chs.

Sept. 5, 1904.

Sept. 6: At this cor., I set off $39^{\circ}51'N.$ on the lat.arc; $6^{\circ}31'N.$ on the decl.arc; and determine a meridian with the solar at the cor. of secs. 17-18-19 and 20.

Thence I run

$N.0^{\circ}03'W.$, bet. secs. 17 and 18.

Descend over rocky land, through scattering cedar timber.

21.00 Bottom of hollow, 150 ft. deep, course NW.

Begin abrupt ascent.

34.00 Top of ridge bears N. and SE.

Thence along top of ridge...

Descend.

40.00 Set a sandstone, 20x11x5 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which

A cedar, 7 ins. diam., bears $N.76^{\circ}E.$, 52 lks. dist.,

marked $\frac{1}{4}$ S 17 B T.

A pinon, 5 ins. diam., bears $S.66^{\circ}W.$, 23 lks. dist.,

marked $\frac{1}{4}$ S 18 B T.

57.00 Leave top of ridge, bearing NW. and S.

Descend.

78.00 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

80.00 Set a sandstone, 24x10x4 ins., 18 ins. in the ground, for cor. of secs. 7-8-17 and 18, marked with 4 notches on the S. and 5 notches on the E. edge; from which

A cedar, 5 ins. diam., bears $N.43^{\circ}E.$, 1.32 chs. dist.,

marked T 11 S R 24 E S 8 B T.

A cedar, 6 ins. diam., bears $S.34^{\circ}E.$, 1.70 chs. dist.,

marked T 11 S R 24 E S 17 B T.

A cedar, 4 ins. diam., bears $S.12^{\circ}W.$, 1.21 chs. dist.,

marked T 11 S R 24 E S 18 B T.

A cedar, 5 ins. diam., bears $N.83^{\circ}W.$, 56 lks. dist.,

SUBDIVISIONS OF T. 11 S., R. 24 E.

CHAINS

- marked T 11 S R 24 E S 7 B T.
 Land, mountainous.
 Soil: rocky, 3rd rate.
 Timber, cedar.
 Mountainous land on 80.00 chs.
-
- S. $89^{\circ}59' E.$ on a random line bet. secs. 8 and 17.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.16 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 8-9-16 and 17.
 Thence I run
 N. $89^{\circ}58' W.$, on a true line
 bet. secs. 8 and 17.
 Descend abruptly over rocky land.
- 17.60 Bottom of asphalt Wash, 400 ft. deep, course NW.
 Wagon road in bottom of wash, bears NW. and SE.
 Begin abrupt ascent.
- 36.00 Top of rocky spur projects N.
 Begin abrupt descent.
- 40.08 Set a sandstone, 24x8x6 ins., 18 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone
 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 41.00 Bottom of hollow, 300 ft. deep, course N.
- 59.64 Gilsonite vein, 24 ins. wide, on Harrison Lode, bears NW. and SE.
- 62.00 Top of spur projects N.
 Begin abrupt descent.
- 67.25 Bottom of hollow, 150 ft. deep, course N.
 Begin abrupt ascent.
- 72.35 Top of spur projects N.
 Begin abrupt descent.
 Enter scattering cedar and pinon timber.
- 76.50 Bottom of hollow, 150 ft. deep, course N.
 Ascend.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- 80.16 The cor. of secs. 7-8-17 and 18.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.16 chs.
-
- N. 89° 59' W. on a random line bet. secs. 7 and 18.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 77.42 Intersect W. bdy. of the Tp., 12 lk. N. of the cor. of secs. 7-12-13 and 18, heretofore described.
Thence I run
N. 89° 56' E. on a true line
bet. secs. 7 and 18.
Descend over rocky land.
- 7.70 Bottom of west fork of Asphalt Wash, 400 ft. deep, course NW.
Begin abrupt ascent.
- 30.30 Top of spur projects NW.
Descend.
Enter scattering cedar and pinon timber.
- 37.42 Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
A cedar, 8 ins. diam., bears S. 32° E., 19 lks. dist.,
marked $\frac{1}{4}$ S 18 B T.
A cedar, 15 ins. diam., bears N. 83° E., 50 lks. dist.,
marked $\frac{1}{4}$ S 7 B T.
- 38.50 Bottom of hollow, 100 ft. deep, course NW.
Begin abrupt ascent.
- 47.50 Top of spur projects NW.
Begin abrupt descent.
- 53.00 Bottom of hollow, 150 ft. deep, course NW.
Begin abrupt ascent.
- 57.50 Top of spur projects NW.
Begin abrupt descent.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- 64.00 Bottom of hollow, 150 ft. deep, course NW.
Begin abrupt ascent.
- 69.00 Top of ridge bears N. and S.
Descend.
- 77.42 The cor. of secs. 7-8-17 and 18.
Land, mountainous.
Soil; rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 77.42 chs.
- N. $0^{\circ}03'W.$, bet. secs. 7 and 8.
- Ascend over rocky land through scattering cedar and pinon timber.
- 9.50 Top of spur projects NE.
From this point, United States Location Monument, No 8, which is a cedar post 4 ft. long, 6 ins. square, marked and witnessed as described by the surveyor general, bears $N.50^{\circ}34'W.$
Descend.
- 10.68 Gilsonite vein, 24 ins. wide, on Harrison Lode, bears NW. and SE.
- 19.00 Leave timber..
- 37.50 Enter bottom of Asphalt Wash, bearing E. and W.; course W.
Over level land through dense greasewood brush.
- 40.00 Set a sandstone, $28 \times 10 \times 10$ ins., 21 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
From this $\frac{1}{4}$ sec. cor., U.S.L.M., No. 8 bears $N.72^{\circ}12'W.$
- 42.00 Wagon road bears E. and W.
- 43.00 Leave bottom of Asphalt Wash, 400 ft. deep, bearing E. and W.,
Begin abrupt ascent over broken sandstone ledges.
Leave dense greasewood brush.
- 57.50 Enter scattering cedar and pinon timber..

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- 7918 Gilsonite vein, 44 ins. wide, on Pride of the West Lode, bears NW. and SE.
- 80.00 Set a sandstone, 20x10x5 ins., 15 ins. in the ground, for cor. of secs. 5-6-7 and 8, marked with 5 notches on the S. and E. edges; from which
- A cedar, 9 ins. diam., bears N. 34° E., 55 lks. dist., marked T 11 S R 24 S 5 B T.
 - A cedar, 7 ins. diam., bears S. 87° E., 23 lks. dist., marked T 11 S R 24 E S 8 B T.
 - A cedar, 6 ins. diam., bears S. $21^{\circ}30'$ W., 38 lks. dist., marked T 11 S R 24 E S 7 B T.
 - A cedar, 10 ins. diam., bears N. 25° W., 57 lks. dist., marked T 11 S R 24 E S 6 B T.
- Land, mountainous.
- Soil; bottom land on 5.50 chs.; balance; rocky 3rd rate.
- Timber, cedar and pinon.
- Mountainous land or dense undergrowth on 80.00 chs.
- Sept. 6: At this cor., I set off $6^{\circ}25'$ N. on the decl. arc; and at 11h 58m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is $39^{\circ}53'$ N.
-
- S. $89^{\circ}58'$ E. on a random line bet. secs. 5 and 8.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.92 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 4-5-8 and 9.
- Thence I run
- N. $89^{\circ}57'$ W., on a true line.
- bet. secs. 5 and 8.
- Over rocky land descend through scattering cedar and pinon timber.
- 6.00 Bottom of hollow, 150 ft. deep, course NW.
- Begin abrupt ascent.
- 14.00 Top of spur projects NW.
- Descend.

SUBDIVISIONS OF T. 11 S., R. 24. E.

CHAINS	
17.00	Bottom of hollow, 100 ft. deep, course N. Ascend.
22.00	Top of ridge bears NW. and SE. Begin abrupt descent.
34.00	Bottom of hollow, 100 ft. deep, course SW. Ascend.
39.96	Set a sandstone, 18x8x3 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A cedar, 5 ins. diam., bears N. 58° E., 22 lks. dist., marked $\frac{1}{4}$ S 5 B T. A cedar, 10 ins. diam., bears S. 76° W., 62 lks. dist., marked $\frac{1}{4}$ S 8 B T.
41.00	Top of spur projects S. Descend.
51.00	Bottom of hollow, 100 ft. deep, course S. Ascend.
57.00	Top of spur projects S. Descend.
60.00	Bottom of hollow, 100 ft. deep, course S. Ascend.
64.00	Top of spur projects S. Descend.
69.00	Bottom of hollow, 100 ft. deep, course S. Ascend.
78.00	Top of spur projects S. Descend.
79.92	The cor. of secs. 5-6-7-8. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 79.92 chs.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

- S. $89^{\circ}56'$ W. on a random line bet. secs. 6 and 7.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 77.31 Intersect W. bdy. of the Tp., 5 lks. S. of the cor. of secs. 1-6-7 and 12, heretofore described.
Thence I run
N. $89^{\circ}58'$ E. on a true line
bet. secs. 6 and 7.
Descend over rocky land.
- 0.90 Bottom of hollow, 150 ft. deep, course NE.
Begin abrupt ascent.
- 10.95 Top of spur projects NE.
Begin abrupt descent.
Enter scattering cedar and pinon timber.
- 24.00 Bottom of hollow, 100 ft. deep, course NE.
Ascend.
- 26.15 Top of spur projects NE.
Descend.
Leave timber. Enter dense greasewood brush.
Enter level bottom of Asphalt Wash, 500 ft. deep, course N.
- 36.00 Wagon road bears N. and S.
- 37.00 Leave bottom of wash, bearing N. and S.
Begin abrupt ascent over rocky land.
- 37.31 Set a sandstone, 24x15x7 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
From the $\frac{1}{4}$ sec. cor., a well belonging to St. Louis Gilsonite Co., about 120 ft. deep, bears N. $7^{\circ}05'$ E., 19.10 chs. dist.
- 74.30 Gilsonite vein, 26 ins. wide, on Pride of the West Lode, bears NW. and SE.
- 77.31 The cor. of secs. 5-6-7 and 8.
Land, mountainous.
Soil: rocky, 3rd rate, 67.46 chs. Bottom land, 2nd rate, 9.85.
Timber, cedar and pinon.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAIN

Mountainous land or dense undergrowth on 77.31 chs.

The N.bdy of the Tp. is the 2nd Standard Parallel South.
Therefore I run

N.0°03'W., on a true line
bet. secs. 5 and 6.

Ascend over rocky land through scattering cedar and pinon timber.

4.00 Top of ridge bears NE. and SE.

Descend.

35.00 Bottom of hollow, 100 ft. deep, course NW.

Ascend.

40.00 Set a sandstone, 20x12x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

40.50 Rocky spur projects NW.; begin abrupt descent.

46.00 Bottom of hollow, 150 ft. deep, course NW.

Begin abrupt ascent.

55.00 Top of spur projects SW.

Descend.

65.00 Bottom of hollow, 100 ft. deep, course W.

Ascend.

73.00 Top of ridge bears NW. and SE.

Begin abrupt descent.

79.90 Intersect 2nd Standard Parallel South, 8.24 chs. E. of the standard cor. of Tp. 10 S., Rs. 23 and 24 E., heretofore described.

Set a sandstone, 24x12x4 ins., 18 ins. in the ground, for closing cor. of secs. 5 and 6, marked CC on S., with 5 grooves on the E. and 1 groove on the W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.

Pits impracticable.

Land, mountainous.

Soil: rocky, 3rd rate.

SUBDIVISIONS OF T.11 S., R.24 E.

CHAINS

Mountainous land on 79.90 chs.

Sept. 6, 1904.

GENERAL DESCRIPTION.

This township is mountainous throughout and badly broken by many ridges ravines and hollows.

The formation is sandstone, and limestone in ~~in~~ places along the southern portion of the township.

There is no water in this township with the exception of wells found in secs. 6-17 and 33.

The township on account of the scarcity of water is unfit for grazing or agricultural purposes.

The following veins of gilsonite are found in this township:

Prideof West lode, averaging 3 ft. in width, in secs. 6-7-8-9-16-15-and 14.

Rainbow Lode, averaging 4 ft. in width, in secs. 15-14-23-24 and 25.

Harrison Lode, averaging 2 ft. in width, in secs. 7-8-16-17-21-22-23 and 26.

Nigger Baby Lode, averaging 3 ft. in width, in secs. 29-30-32 and 33.

South Harrison Lode, averaging 18 ins. in width, in secs. 18-19-20-22-26-27-35 and 36.

There are no settlers in this township.

I return the following as mineral land: Lot, 5 sec.5; lots 5,6,7,8,9,10,11 in sec.6; lots 1,3,4,5,6,7,8, 10,11 in sec.7; lots 1,2,3,4,5,6,7,8, and SE $\frac{1}{4}$ of SW $\frac{1}{4}$ sec. 8; lots 1,2,3,4,5 in sec.9; lots 1 and 2 in sec.14; lots 1,2,3,4,5,6 and SW $\frac{1}{4}$ of NE $\frac{1}{4}$ sec.15; lots 1 and 2, and SW $\frac{1}{4}$ of NW $\frac{1}{4}$, N $\frac{1}{2}$ of SW $\frac{1}{4}$, W $\frac{1}{2}$ of SE $\frac{1}{4}$; and SE $\frac{1}{4}$ of SE $\frac{1}{4}$ sec.16; the NE $\frac{1}{4}$, and NE $\frac{1}{4}$ of NW $\frac{1}{4}$ sec.17; lot 4, and SE $\frac{1}{4}$ of SW $\frac{1}{4}$ sec.18; NE $\frac{1}{4}$ of NW $\frac{1}{4}$, E $\frac{1}{2}$ of NE $\frac{1}{4}$, and NW $\frac{1}{4}$ of NE $\frac{1}{4}$ sec.19; the SW $\frac{1}{4}$ of NW $\frac{1}{4}$ sec.20; the NE $\frac{1}{4}$ of NE $\frac{1}{4}$ sec.21; the E $\frac{1}{2}$ of NW $\frac{1}{4}$, the NW $\frac{1}{4}$

SUBDIVISIONS OF T.11 S., R. 24 E.

of NW $\frac{1}{4}$, the SW $\frac{1}{4}$ of NE $\frac{1}{4}$, the E $\frac{1}{2}$ of SE $\frac{1}{4}$, the NW $\frac{1}{4}$ of SE $\frac{1}{4}$, and SW $\frac{1}{4}$ of SW $\frac{1}{4}$ sec.22; lots 1,2,3,4,5,6,7,8, and the S $\frac{1}{2}$ of SW $\frac{1}{4}$ sec.23, lots 1,2,3 sec.24; lots 1,2,3,4,5,6,7 in sec.25; the NE $\frac{1}{4}$ of NW $\frac{1}{4}$, the SW $\frac{1}{4}$, and SW $\frac{1}{4}$ of SE $\frac{1}{4}$ sec.26; the N $\frac{1}{2}$ of NW $\frac{1}{4}$, NW $\frac{1}{4}$ of NE $\frac{1}{4}$, S $\frac{1}{2}$ of NE $\frac{1}{4}$, and NE $\frac{1}{4}$ of SE $\frac{1}{4}$ sec.27; the SW $\frac{1}{4}$ of SW $\frac{1}{4}$ sec.29; lots 2 and 3, NE $\frac{1}{4}$ of SW $\frac{1}{4}$, S $\frac{1}{2}$ of SE $\frac{1}{4}$, and NW $\frac{1}{4}$ of SE $\frac{1}{4}$ sec.30; the N $\frac{1}{2}$ of NW $\frac{1}{4}$, SE $\frac{1}{4}$ of NW $\frac{1}{4}$, S $\frac{1}{2}$ of NE $\frac{1}{4}$, and NE $\frac{1}{4}$ of SE $\frac{1}{4}$ sec.32; the SW $\frac{1}{4}$ and SW $\frac{1}{4}$ of SE $\frac{1}{4}$ sec.33; the E $\frac{1}{2}$ of NE $\frac{1}{4}$, NW $\frac{1}{4}$ of NE $\frac{1}{4}$ sec.35; and SW $\frac{1}{4}$ of NW $\frac{1}{4}$ sec.36

Harvey L. Feist
U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**LIST OF NAMES.**

A list of the names of the individuals employed by _____ United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

owing the respective capacities in which they acted:

For final affidavits see book "Z¹²" T.12 S.R.24 E. *Chairman.*
..... *Chairman.*
..... *Moundman.*
..... *Moundman.*
..... *Arman.*
..... *Arman.*
..... *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

United States Deputy Surveyor, in surveying all

the parts or portions of the

meridian, _____ of the _____, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for

For final affidavits see book "Z¹²" T.12 S.R.24 E. *Chairman.*
..... *Chairman.*
..... *Moundman.*
..... *Moundman.*
..... *Arman.*
..... *Arman.*
..... *Flagman.*

Subscribed and sworn to before me this }
day of , 180 }
..... , 180 }

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of the _____ day of _____, 189_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.
For final affidavits see book "Z" T.12 S.R.24 E.

of the _____
meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189_____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 27, 1905.

The foregoing field notes of the survey of the Subdivisional lines of Township No. 11 South, Range No. 24 East of the Salt Lake Base and Meridian, Utah,

executed by Alfredo R. Talamantes and Harvey D. Heist, U.S. Deputy Surveyor their _____ under his contract No. 285, dated April 12, 1904, _____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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BOOK A-326
Z⁹

FIELD NOTES

OF THE SURVEY OF THE

GUIDE MERIDIAN

OR

EAST MBD Y. O F

TOWNSHIP NO. 12 SOUTH

RANGE NO. 24 EAST

Of the SALT LAKE BASE AND Meridian,

IN THE STATE OF UTAH

AS SURVEYED BY

Fredo R. Talamantes and Harvey D. Heist, United States Deputy Surveyor,
their
nder his Contract No. 285, dated April 12, 1904.

Survey commenced September 7, 1904.

Survey completed September 8, 1904.

600.00

NAMES AND DUTIES OF ASSISTANTS.**CHARLES HOEL****CHAINMAN****EARL WOOLLEY****CHAINMAN****LEWIS HAHN****CHAINMAN.****HEBER CHRISTENSEN****CHAINMAN.****ANDREW STUMPF****MOUNDMAN,****EDWARD J. BEAIRD****AXMAN.****JOHN A. NEELY****FLAGMAN.**

For preliminary affidavits see book "R" T.10 S.R.24 E.

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Volume**#****R0326**

BOOK A-326

INDEX DIAGRAM.

Township _____, *Range* _____

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30	20	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, and
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
 day of , 189 }



WE, and
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
 day of , 189 }



WE, and
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
 day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
 day of , 189 }



CHAINS

Survey commenced Sept. 7, 1904, and executed with the instrument described in book "A" of this survey. I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 11 and 12 S., Rs. 24 and 25 E., heretofore described, in approximate latitude $39^{\circ}48'40''$ N., longitude $109^{\circ}12'11.3''$ W.; I set off $39^{\circ}49'$ N. on the lat.arc: $59'$ N. on the decl.arc; and determine with the solar a meridian and mark a point thereof on a stone firmly set in the ground, 5 chs. N. of the cor. at 4h p.m.l.m.t. At 8h 23m p.m., l.m.t., I observe Polaris at eastern elongation in accordance with the Manual of Instructions and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

Sept. 7, 1904.

Sept. 8: At 6h a.m., I lay off the azimuth of Polaris $1^{\circ}34'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone, set last night, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 7h a.m., l.m.t., I set off $39^{\circ}49'$ N. on the lat.arc: $5^{\circ}46'$ N. on the decl.arc; and mark a point in the meridian determined with the solar, by a cross on the stone, already set 5 chs. N. of my station; this mark falls 0.2 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations defines positions for meridians respectively about $0'16''$ west and $0'11''$ east of the meridian established by

GUIDE MERIDIAN OR EAST. BDY. OF T. 12 S., R. 24 E.

CHAINS

the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian is N. $16^{\circ}13'$ W.; the angle thus determined gives the magnetic decl. $16^{\circ}13'E.$

From the Tp. cor., already described, I run South, on the Guide Meridian, along the E. bdy. of the Tp.,

Bet. secs. 1 and 6.

Descend over rocky land through dense artemisia.

13.00 Bottom of hollow, 100 ft. deep, course NW.

Ascend.

Difference bet. measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point

By 1st set, 40.02 chs.,

By 2nd set, 39.98 chs., the mean of which is

40.00 Set a sandstone, 16x14x3 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

This cor. falls on top of spur projecting E. Descend.

58.00 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

Difference bet. measurements of 80.00 chs., by two sets of chainmen is 6 lks.; position of middle point

By 1st set, 80.03 chs.,

By 2nd set, 79.97 chs., the mean of which is

80.00 Set a sandstone, 16x14x3 ins., 11 ins. in the ground, for cor. of secs. 1-6-7 and 12, marked with 1 notch on the N. and 5 notches on the S. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil; rocky, 3rd rate.

No timber.

Mountainous land covered with dense undergrowth: 80.00 chs.

GUIDE MERIDIAN OR EAST BDY. OF T. 12 S., R. 24 E.

CHAINS

- South bet. secs. 7 and 12.
- Ascend over rocky land through scattering cedar and pinon timber and dense artemisia.
- 20.00 Top of ridge bears E. and W.
- Descend.
- Difference bet. measurements of 40.00 chs. by two sets of chainmen is 8 lks.; position of middle point
- By 1st set, 40.04 chs.,
- By 2nd set, 39.96 chs., the mean of which is
- 40.00 Set a sandstone, 14x10x5 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
- A pinon, 4 ins. diam., bears N 20° E., 1.19 chs. dist., marked $\frac{1}{4}$ S 17 B. T.
- No other trees within limits; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- Pits impracticable.
- 41.50 Bottom of hollow, 75 ft. deep, course. W.
- Ascend.
- 60.25 Top of ridge bears E. and W.
- Descend.
- Difference bet. measurements of 80.00 chs., by two sets of chainmen is 6 lks.; position of middle point
- By 1st set, 80.03 chs.,
- By 2nd set, 79.97 chs., the mean of which is
- 80.00 Set a sandstone, 16x14x4 ins., 11 ins. in the ground, for cor. of secs. 7-12-13 and 18, marked with 2 notches on the N. and 4 notches on the S. edge; from which
- A pinon, 16 ins. diam., bears N. 51° E., 94 lks. dist., marked T 12 S R 25 E S. 7 B T..
- A pinon, 13 ins. diam., bears S. 13° E., 2.07 chs. dist., marked T 12 S R 25 E S 18 B T..
- A pinon, 10 ins. diam., bears S. 12° W., 1.18 chs. dist., marked T 12 S R 24 E S. 13 B T..

GUIDE MERIDIAN OR EAST BDY.OF T. 12 S., R.24 E.

CHAINS

A pinon, 18 ins. diam., bears N.67°30'W., 28 lks. dist.,
marked T 12 S R 24 E S 12 B T.

Land, mountainous.

Soil; rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land and dense undergrowth on 80.00 chs.

South, bet. secs. 13 and 18.

Descend over rocky land through scattering cedar and
pinon timber, and dense artemisia.

9.00 Bottom of hollow, 50 ft. deep, course W.

Ascend.

15.00 Point of spur projects W.

Descend.

32.50 Bottom of hollow, 150 ft. deep, course W.

Ascend.

Difference bet. measurements of 40.00 chs. by two sets, of
chainmen is 14 lks.; position of middle point

By 1st set, 40.07 chs.,

By 2nd set, 39.93 chs., the mean of which is

40.00 Set a sandstone, 16x12x3 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which

A pinon, 14 ins. diam., bears S.56°20'W., 1.80 chs.
dist.,

marked $\frac{1}{4}$ S 13 B T.

No other trees within limits; and raise a mound of
stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

70.00 Top of spur projects E.

Descend.

Difference bet. measurements of 80.00 chs., by two sets of
chainmen is 10 lks.; position of middle point

By 1st set, 80.05 chs.,

By 2nd set, 79.95 chs., the mean of which is

GUIDE MERIDIAN, OR EAST BDY. OF T. 12 S., R. 24 E.

CHAINS

- 80.00 Set a sandstone, 14x8x4 ins., 9 ins. in the ground, for cor. of secs. 13-18-19 and 24, marked with 3 notches on the N. and S. edges; from which
- A pinon, 18 ins. diam., bears N. $73^{\circ}35' E.$, 2.25 chs. dist., marked T 12 S R 25 E S 18 B T.
- A pinon, 8 ins. diam., bears S. $18^{\circ}25' E.$, 2.63 chs. dist., marked T 12 S R 25 E S 19 B T.
- A pinon, 10 ins. diam. bears S. $52^{\circ}W.$, 2.98 chs. dist., marked T 12 S R 24 E S 24 B T.
- A pinon, 20 ins. diam., bears N. $57^{\circ}30' W.$, 1.16 chs. dist., marked T 12 S R 24 E S 13 B T.
- Land, mountainous.
- Soil, rocky, 3rd rate.
- Timber, cedar and pinon.
- Mountainous land and dense undergrowth on 80.00 chs.
-
- South bet. secs. 19 and 24.
- Over mountainous land descend through scattering cedar and pinon timber.
- 2.00 Bottom of hollow, 150 ft. deep, course NE.
- Ascend.
- 36.00 Top of ridge bears NE. and SW.
- Descend.
- Difference bet. measurements of 40.00 chs. by two sets of chainmen is 8 lks.; position of middle point,
- By 1st set, 40.04 chs.,
- By 2nd set, 39.96 chs., the mean of which is
- 40.00 Set a sandstone, 16x12x3 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
- A pinon, 18 ins. diam., bears N. $60^{\circ}45' E.$, 20 lks. dist., marked $\frac{1}{4}$ S 19 B T.
- A pinon, 14 ins. diam., bears N. $6^{\circ}50' W.$, 5 lks. dist., marked $\frac{1}{4}$ S 24 B T.
- 54.00 Bottom of hollow, 150 ft. deep, course NE.

GUIDE MERIDIAN OR. EAST BDY. OF T. 12 S., R. 24 E.

CHATHAM

Ascend.

Difference bet. measurements of 80.00 chs. by two sets of chainmen is 16 lks.: position of middle point

By 1st set, 80.08 chs.,

By 2nd set, 79.92 chs., the mean of which is

80.00 Set a sandstone, 18x16x3 ins., 12 ins. in the ground, for cor. of secs. 19-24-25 and 30, marked with 4 notches on the N. and 2 notches on the S. edge; from which

A Pinon, 4 ins. diam., bears N. 54° E., 14 lks. dist.,

marked T 12 S R 25 E S 19 B T.

A pinon, 4 ins. diam., bears S. 52° E., 13 lks. dist.,

marked T 12 S R 25 E S 30 B T.

A pinon, 4 ins. diam., bears S. 46° W., 29 lks. dist.,

marked T 12 S R 24 E S 25 B T.

A pinon, 4 ins. diam., bears N. 2° 30' W., 28 lks. dist.,

marked T 12 S R 24 E S 24 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

Sept. 8: At this cor., I set off 5° 40' N. on the decl. arc; and at 11h 58m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 39° 45' N.

South bet. secs. 25 and 30.

Ascend over rocky land through scattering cedar and pinon timber.

5.50 Top of ridge bears NW. and SW.

Thence along the east slope of ridge.

35.00 Descend.

Difference bet. measurements of 40.00 chs., by two sets of chainmen is 12 lks.: position of middle point

By 1st set, 40.06 chs.,

By 2nd set, 39.94 chs., the mean of which is

GUIDE MERIDIAN OR EAST BDY. OF T.12 S..R.24 E.

CHAINS

- 40.00 Set a sandstone, 18x14x3 ins., 12 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which
 A pinon, 11 ins. diam. bears $S.29^{\circ}20'E.$, 1.33 chs.dist.,
 marked $\frac{1}{4}$ S 30 B T.
 A pinon, 10 ins. diam., bears $S.56^{\circ}35'W.$, 2.06 chs.dist.,
 marked $\frac{1}{4}$ S 25 B T.
- 42.50 Bottom of hollow, 100 ft. deep, course NE.
 Ascend.
- 53.00 Top of low spur projects NE.
 Descend.
 Difference bet.measurements of 80.00 chs. by two sets of
 chainmen is 20 lks.; position of middle point
 By 1st set, 80.10 chs.,
 By 2nd set, 79.90 chs., the mean of which is
- 80.00 Set a sandstone, 16x12x3 ins., 11 ins. in the ground, for
 cor.of secs.25-30-31 and 36, marked with 5 notches on the
 N.and 1 notch on the S.edge; from which
 A pinon, 10 ins. diam., bears $N.7^{\circ}45'E.$, 39 lks.dist.,
 marked T 12 S R 25 E S 30 B T.
 A pinon, 10 ins. diam., bears $S.67^{\circ}10'W.$, 71 lks.dist.,
 marked T 12 S R 24 E S 36 B T.
 A pinon, 10 ins. diam., bears $N.11^{\circ}25'W.$, 26 lks.dist.,
 marked T 12 S R 24 E S 25 B T.
 No other trees within limits; and raise a mound of stone,
 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor.
 Pits impracticable.
 Land, mountainous.
 Soil: rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 80.00 chs.

South betsecs.31 and 36.

GUIDE MERIDIAN OR EAST BDY.OF T.12 S., R.24 E.

CHAINS

- Descend over rocky land through scattering cedar and pinon timber.
- Bottom of hollow, 50 ft. deep, course NE.
- Ascend.
- Difference bet. measurements of 40.00 chs. by two sets of chainmen is 20 lks.; position of middle point
- By 1st set, 40.10 chs., 1.10 lks. to center.
- By 2nd set, 39.90 chs., the mean of which is
- Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which
- A pinon, 10 ins. diam., bears N. $65^{\circ}15' E.$, 48 lks. dist., marked $\frac{1}{4}$ S 31 B.T.
- A pinon, 11 ins. diam., bears N. $89^{\circ} W.$, 56 lks. dist., marked $\frac{1}{4}$ S 36 B.T.
- Difference bet. measurements of 80.00 chs., by two sets of chainmen is 22 lks.; position of middle point
- By 1st set, 80.11 chs.,
- By 2nd set, 79.89 chs., the mean of which is
- Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for cor. of Tps. 12 and 13 S., Rs. 24 and 25 E., marked with 6 notches on each edge; from which
- A cedar, 4 ins. diam., bears N. $11^{\circ}20' E.$, 46 lks. dist., marked T 12 S R 25 E S 31 B.T.
- A cedar, 8 ins. diam., bears S. $40^{\circ} E.$, 1.95 chs. dist., marked T 13 S R 25 E S 6 B.T.
- A pinon, 8 ins. diam., bears S. $49^{\circ} W.$, 64 lks. dist., marked T 13 S R 24 E S 1 B.T.
- A pinon, 8 ins. diam., bears N. $20^{\circ}20' W.$, 1.03 chs. dist., marked T 12 S R 24 E S 36 B.T.
- Land, mountainous.
- Soil: rocky, 3rd rate.
- Timber, cedar and pinon.
- Mountainous land on 80.00 chs.

Sept. 8, 1904.

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(9)

GUIDE MERIDIAN OR EAST BDY. OF T.12 S., R.24 E.

For general description see notes of subdivisions of this township.

Harvey W. Heist,
US. Deputy Surveyor.

Volume

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Harvey D. Heist

, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Guide Meridian, or East Bdys. of Tps. 10 and 12 S.R. 24 E. of the Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

Charles Hoel Earl Woolley, Chainman.

Lewis Hahn Heber Christensen, Chainman.

Andrew Stumpf, Moundman.

, Moundman.

Edward J. Beaird, Arman.

, Axman.

John A. Neely, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D. Heist

, United States Deputy Surveyor, in surveying all those parts or portions of the the Guide Meridian, or East Bdys. of Tps. 10 and 12 S.R. 24 E.

of the Salt

Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Charles Hoel Earl Woolley, Chainman.

Lewis Hahn Heber Christensen, Chainman.

Andrew Stumpf, Moundman.

, Moundman.

Edward J. Beaird, Axman.

, Axman.

, Flagman.

Subscribed and sworn to before me this 8th

day of September, 1904, MDCCCVI



J. M. Hamblin

Notary Public

My commission expires Feb. 6th 1907.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harvey D. Heist, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of the 12th day of April, 1904, XXX, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Guide Meridian, or East Bdys. of Townships 10 and 12 South, Range 24 East.

of the Salt Lake Base
and meridians in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Harvey D. Heist
United States Deputy Surveyor.

Subscribed by said Harvey D. Heist, and sworn to before me
this 25th day of November, 1904, XXX

SEAL
ccccccc

Edward H. Anderson
U.S. Surveyor General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 27, 1905.

The foregoing field notes of the survey of the Guide Meridian, or East Boundary of Township No. 12 South, Range No. 24 East of the Salt Lake Base and Meridian, Utah

executed by Alfredo R. Talamantes and Harvey D. Heist, U.S. Deputy Surveyors; under his contract No. 285, dated April 12, 1904, XXX, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-326

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FILED

OCT 22 1904

W.H.B.

FIELD NOTES

OF THE SURVEY OF THE

South Body
of
Township No 12 South
Range No 25 East.

of the Salt Lake Base Meridian,
In the state of Utah

AS SURVEYED BY

Alfredo R. Talamantes^{2d} Harvey D. Husted, United States Deputy Surveyor,
Under his Contract No. 285, dated April 12-1904, 189

Survey commenced Sept 8-1904, 189

Survey completed Sept 9-1904, 189

6-151

High 6-28 32'
Cloud 1L 67'

NAMES AND DUTIES OF ASSISTANTS.

Julius H. White Chairman
Egbert White "
Howard M. Hodges Moundina
William Pearson Asman
William L. White Flagman

BOOK A-326

INDEX DIAGRAM.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE,

Julius H. White and *Egbert White*

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

S. Dwy of S 17 R 25 E, of the Salt Lake Base and Meridian, Utah.

Julius H. White, Chainm
Egbert White, Chainm

Subscribed and sworn to before me this _____
day of *Sept. 1904*, 189 }



WE,

Howard M. Hodge and*E. T. Carle**Martinez* public

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

S. Dwy of S 17 R 25 E, of the Salt Lake Base and Meridian, Utah.

Howard M. Hodge, Moundma

Subscribed and sworn to before me this _____
day of *Sept 1904*, 189 }



WE,

William Pearson and*E. T. Carle**Martinez* public

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

S. Dwy of S 17 R 25 E, of the Salt Lake Base and Meridian, Utah.

William Pearson, Axma

Subscribed and sworn to before me this _____
day of *Sept 1904*, 189 }



I, *William L. White*, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of *S. Dwy of S 17 R 25 E*, of the Salt Lake Base and Meridian, Utah.

William L. White, Flagma

Subscribed and sworn to before me this _____
day of *Sept 1904*, 189 }

*E. T. Carle**Martinez* public

SOUTH EDY.OF T.12 S., R.25 E.

CHAINS

Survey commenced Sept. 8th, 1904, and executed with the instrument described in book "N" of this survey.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 12 and 13 S., Rs. 24 and 25 E., in approximate latitude $39^{\circ}43'27''$ N., longitude $110^{\circ}12'11''$ W.; I set off $39^{\circ}43'N.$ on the lat. arc; $5^{\circ}36'N.$ on the decl. arc; and at 4h p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on stone firmly set in ground, 5 chs. N. of the cor.

At 8h 19m p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

Sept. 8, 1904.

Sept. 9: At 6h a.m., I lay off the azimuth of Polaris, $1^{\circ}34.4'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set last night, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 7h a.m., l.m.t., I set off $39^{\circ}43'N.$ on the lat. arc; $5^{\circ}23'N.$ on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone, already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about $0'21''$ west

SOUTH BOUNDARY OF T.12 S., R.25 E.

CHAINS	<p>and 0'16" east of the meridian established by the Polaris observations. Therefore, I conclude that the adjustments of the instrument are satisfactory.</p> <p>The magnetic bearing of the true meridian, at 7h 30m a.m., is N.$16^{\circ}10'$W.; the angle thus determined gives the magnetic decl.$16^{\circ}10'$E.</p> <p>Knowing the Utah-Colorado Boundary, Line is within a half mile of the point for the location of the east bdy. of this township, I begin at the Tp.cor., and run East on a true line bet. secs. 6 and 31.</p> <p>Descend over mountainous land through scattering cedar and pinon timber.</p>
7.00	Bottom of hollow, 75 ft. deep, course N. Ascend.
11.00	Top of spur projects N. Descend.
19.00	Bottom of hollow, 200 ft. deep, course N. Ascend.
27.00	Top of ridge bears N. and S. Descend.
37.00	Bottom of hollow, 100 ft. deep, course N. Ascend.
40.00	Set a sandstone, 16x14x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face; from which A pinon, 8 ins. diam., bears N. $82^{\circ}45'$ W., 21 lks. dist., marked $\frac{1}{4}$ S 31 B T. A pinon, 14 ins. diam., bears S. $24^{\circ}50'$ W., 21 lks. dist., marked $\frac{1}{4}$ S 76 B T.
45.00	Top of spur projects NE. Descend.
62.00	Bottom of hollow, 100 ft. deep, course N. Ascend.
71.00	Top of spur projects N. Descend.

SOUTH BOUNDARY OF T. 12 S., R. 25 E.

CHAINS

- 76.50 Bottom of hollow, 150 ft. deep, course N.
Ascend.
- 80.00 Set a sandstone, 16x8x5 ins., 11 ins. in the ground, for cor. of secs. 5-6-31 and 32, marked with 1 notch on the W. and 5 notches on the E. edge; from which
A pinon, 8 ins. diam., bears N. 80° 30' E., 9 lks. dist., marked T 12 S R 25 E S 32 B T.
A pinon, 10 ins. diam., bears S. 15° 35' E., 35 lks. dist., marked T 13 S R 25 E S 5 B T.
A pinon, 12 ins. diam., bears S. 28° W., 56 lks. dist., marked T 13 S R 25 E S 6 B T.
A pinon, 8 ins. diam., bears N. 64° 30' W., 37 lks. dist., marked T 12 S R 25 E S 31 B T.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.00 chs.

EAST, bet. secs. 5 and 32.

- Ascend over rocky land through scattering cedar and pinon timber.
- 5.00 Top of spur projects N.
Descend.
- 10.75 Bottom of hollow, 100 ft. deep, course NW.
Ascend.
- 33.50 Top of ridge bears N. and S..
Wagon road on top of ridge bears N. and S.
Descend.
- 40.00 Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
A pinon, 10 ins. diam., bears N. 0° 30' W., 20 lks. dist., marked $\frac{1}{4}$ S 32 B T
A pinon, 8 ins. diam., bears S. 11° E., 38 lks. dist., marked $\frac{1}{4}$ S 5 B T.

SOUTH. BOUNDARY OF T.12 S., R.25 E.

CHAINS	
52.50	Bottom of hollow, 200 ft. deep, course N. Begin abrupt ascent.
61.25	Top of ridge bears N. and S. Descend.
74.00	Bottom of hollow, 200 ft. deep, course NE. Begin abrupt ascent.
80.00	Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for cor. of secs. 4-5-32 and 33, marked with 2 notches on the W. and 4 notches on the E. edge; from which A pinon, 12 ins. diam., bears N. 44° 30' E., 36 lks. dist., marked T 12 S R 25 E S 35 B T. A pinon, 10 ins. diam., bears S. 70° 50' E., 25 lks. dist., marked T 13 S R 25 E S 4 B T. A pinon, 8 ins. diam., bears N. 57° W., 42 lks. dist., marked T 12 S R 25 E S 32 B T. A pinon, 6 ins. diam., bears S. 43° 20' W., 23 lks. dist., marked T 13 S R 25 E S 5 B T. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 80.00 chs.

	East bet. secs. 4 and 33.
	Ascend over rocky land through scattering cedar and pinon timber.
4.50	Top of ridge bears N. and S. Descend.
15.00	Bottom of hollow, 100 ft. deep, course N. Ascend.
34.00	Top of ridge bears N. and S. Descend. Leave timber.
40.00	Set a sandstone, 16x14x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of

SOUTH BDY. OF T. 12 S., R. 25 E.

CHAINS

stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

41.00 Head of hollow, course N.

Ascend.

44.00 Enter scattering cedar and pinon timber.

54.00 Leave timber,

60.00 Top of ridge bears NE. and SW.

Descend.

80.00 Set a sandstone, 16x14x4 ins., 11 ins. in the ground, for cor. of secs. 3-4-33 and 34, marked with 3 notches on the E. and W. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Section corner in gulch draining NE.

Land, mountainous..

Soil; rocky, 3rd rate..

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

Sept. 9: At this cor., I set off $05^{\circ}17'N.$ on the decl. arc; and, at 11h 57m a.m., 11 m.t., observe the sun on the meridian; the resulting lat. is $39^{\circ}43'N.$

East bet. secs. 3 and 34.

Ascend over mountainous land.

9.00 Enter scattering cedar and pinon timber.

15.00 Top of spur projects NE.

Descend.

40.00 Set a sandstone, 16x10x3 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

A pinon, 24 ins. diam., bears $N.77^{\circ}E.$, 45 lks. dist.,

marked $\frac{1}{4}$ S 34 B.T.

A pinon, 15 ins. diam., bears $S.55^{\circ}10'E.$, 36 lks. dist.,

marked $\frac{1}{4}$ S 3 B.T.

54.00 Bottom of Camp Gulch, 500 ft. deep; course N.

Begin abrupt ascent.

SOUTH BOUNDARY OF T.12 S., R.25 E.

CHAINS	
67.00	Top of spur projects N. Descend.
78.00	Bottom of hollow, 200 ft. deep, course NW. Begin abrupt descent.
80.00	Set a sandstone, 16x12x3 ins., 11 ins. in the ground, for cor. of secs. 2-3-34 and 35, marked with 4 notches on the W. and 2 notches on the E. edge; from which A pinon, 6 ins. diam., bears N. 51° E., 20 lks. dist., marked T 12 S R 25 E S 35 B T. A pinon, 10 ins. diam., bears S. 66° 30' E., 24 lks. dist., marked T 13 S R 25 E S 2 B T. A pinon, 6 ins. diam., bears S. 19° 45' W., 63. lks. dist., marked T 13 S R 25 E S 3 B T. A pinon, 8 ins. diam., bears N. 66° 25' W., 29 lks. dist., marked T 12 S R 25 E S 34 B T. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 80.00 chs.
12.00	East bet. secs. 2 and 35. Over mountainous land through scattering cedar and pinon timber, ascend. Top of ridge bears NW. and SE. Descend.
17.50	Head of hollow, course NE. Ascend.
36.00	Top of ridge bears NE. and SW. Descend.
40.00	Set a sandstone, 18x13x3 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A pinon, 5 ins. diam., bears N. 8° W., 52 lks. dist., marked $\frac{1}{4}$ S 35 B T. A pinon, 4 ins. diam., bears S. 2° E., 22 lks. dist.,

SOUTH BDY. OF T. 12 S., R. 25 E.

CHAINS

- marked $\frac{1}{4}$ S 2 B T.
- 49.00 Head of hollow, course NE.
Ascend.
- 57.00 Top of spur projects NE.
Begin abrupt descent over sandstone ledges and slide rock.
Leave timber.
- 70.50 Bottom of gulch, 700 ft. deep, course NE.
Ascend abruptly over sandstone ledges and loose slide rock.
- 80.00 Point for cor. of secs. 1-2-35 and 36, falls on loose slide rock and cannot be set.
Land, mountainous.
Soil; rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.00 chs.
-
- East bet. secs. 1 and 36.
Ascend abruptly over loose slide rock.
- 19.80 Leave slide rock.
Enter heavy cedar and pinon timber, bearing NE. and SW.
Set a sandstone, 18x10x3 ins., 12 ins. in the ground, for witness cor. to cor. of secs. 1-2-35 and 36, marked WC on NE. face; with 5 notches on W. and 1 on E. edge; from which A pinon, 6 ins. diam., bears N. 55° 20' E., 48 lks. dist.,
marked W C T 12 S R 25 E S 3C B T.
A pinon, 4 ins. diam., bears S. 39° E., 11 lks. dist.,
marked W C T 13 S R 25 E S 1 B T.
A pinon, 11 ins. diam., bears S. 30° W., 70 lks. dist.,
marked W C T 13 S R 25 E S 1 B T.
A pinon, 12 ins. diam., bears N. 45° 40' W., 46 lks. dist.,
marked W C T 12 S R 25 E S 36 B T.
- 21.00 Top of ridge bears NE. and SW.
Descend.

SOUTH BDY. OF T. 12. S., R. 25 E.

CHAINS	
40.00	Set a sandstone, 16x12x3 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A pinon, 12 ins. diam., bears N. $24^{\circ}W.$, 25 lks. dist., marked $\frac{1}{4}$ S 36 B T. A pinon, 6 ins. diam., bears S. $1^{\circ}20'W.$, 18 lks. dist., marked $\frac{1}{4}$ S 1 B T.
81.70	Bottom of hollow, 200 ft. deep, course NE. Ascend.
108.32	Intersect Utah-Colorado Boundary Line, 11.67 chs. S. $0^{\circ}08'W.$ of the 188. Mile Cor., heretofore described. Set a sandstone, 18x12x8 ins., 12 ins. in the ground, for closing cor. of Tps. 12 and 13, S., R. 25 E., marked C C U on W., C on E., with 6 grooves on the N., S., and W. faces; from which ... A cedar, 18 ins. diam., bears N. $39^{\circ}W.$, 45 lks. dist., marked T 12 S R 25 E S 36 B T. A cedar, 14 ins. diam., bears S. $50^{\circ}10'W.$, 13 lks. dist., marked T 13 S R 25 E S 1 B T. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous or heavily timbered land on 108.32 chs.

Sept 9, 1904.

BOUNDARIES OF T.12 S., R.25 E.

Latitudes, departures and closing errors.

Line designated	True bearing	Dist. chxs.	Latitude N. chxs.	S. chxs.	E. chxs.	W. chxs.	Departure.
S.Bdy., T.11 S., R.25 E. West		507.87					507.87
Guide Meridian or							
E.Bdy., T.12 S., R.24 E. South.		480.00					
S.bdy., T.12 S., R.25 E. East		508.32					508.32
UTAH-COLORADO BDY. LINE.	N. 0°11'E N. 0°08'E.,	11.67 1.63.34 -183.34	11.67			.04	
						0.38	
			N. 0°04'E.,	240.97	240.97		0.28
	North	64.09	64.09				
Convergency							0.61
Totals			480.07	480.00	509.02	508.48	
			480.00			508.48	
Error in lat. & Dep.			0.07			0.54	

Alfredo R. Talamantes

US Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alfredo R. Talamantes, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Salt Lake Base Meridian, Utah, showing the respective capacities in which they acted:

Julius S. White, Chainman.
Cobert White, Chainman.
Howard M. Dodge, Moundman.
William Pearson, Moundman.
William L. White, Axman.
William L. White, Axman.
William L. White, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfredo R. Talamantes

, United States Deputy Surveyor, in surveying all those parts or portions of the South Boundary of Township 12 South, Range 25 East

Salt Lake Base X meridian, in the state of Utah, of the Salt, which are represented by the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Julius S. White, Chainman.
Cobert White, Chainman.
Howard M. Dodge, Moundman.
William Pearson, Axman.
William L. White, Axman.
William L. White, Flagman.

scribed and sworn to before me this 9
day of Sept 1904, 189 }



G. T. Carker
Mating Tabble

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alfredo R. Talamantes, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of 17 day of April 1904, 189⁰, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Secty of T. 12 S. R. 25 E.

District of the Salt Lake meridian, in the state of Utah, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah; and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alfredo R. Talamantes
United States Deputy Surveyor

Subscribed by said Alfredo R. Talamantes, and sworn to before me }
this 25th day of November, 1904. XXX }



Harvey N. Heist
U.S. Surveyor General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 27, 1904.

The foregoing field notes of the survey of the South Boundary of Township No. 12 South, Range No. 25 East of the Salt Lake Base and Meridian, Utah,

executed by Alfredo R. Talamantes and Harvey N. Heist, U.S. Deputy Surveyors, under his contract No. 285, dated April 12, 1904, 189⁰, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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BOOK A-326

OCT 22 1904

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Z.**FIELD NOTES**

OF THE SURVEY OF THE

West and South Parks

of
Township No 17 South
Range No. 24 Eastof the Salt Lake Base and Meridian,
In the State of Utah

AS SURVEYED BY

Alfred R. Talamantes and Harry D. Hart, United States Deputy Surveyor,
Under his Contract No. 285, dated April 1904, 189.

Survey commenced Sept 9-1904, 189

Survey completed Sept. 10-1904, 189

6-161

(W. Bdy. Land 6-0-0-0 ✓
S. " " 5,7839 ✓

NAMES AND DUTIES OF ASSISTANTS.

Earl Woolley Chainman

Heber Christensen Chainman.

Andrew Stumpf Moundman.

Edward J. Beaird Axman.

John A. Neely Flagman.

For preliminary affidavits see book "C" T.9 S. R. 21 E.

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#

R0326

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PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

_____, Chainm.

_____, Chainm.

Subscribed and sworn to before me this _____ }
day of _____, 189 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

_____, Mound.

_____, Mound.

Subscribed and sworn to before me this _____ }
day of _____, 189 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corn and other duties, according to instructions given us, to the best of our skill and ability, in the survey

_____, Axm.

_____, Axm.

Subscribed and sworn to before me this _____ }
day of _____, 189 }



I, _____, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in survey of _____

_____, Fla.

Subscribed and sworn to before me this _____ }
day of _____, 189 }



(1)

W.F.S.T. B.D.Y. OF T. 12. S., R. 24 E.

CHAINS

Survey commenced Sept. 9, 1904, and executed with the instrument described in book "A" of this survey.

I know the instrument to be in adjustment from recent observations made Sept. 7, 1904, and recorded in book "Z⁹" of this survey.

At 8h a.m., l.m.t., I set off $39^{\circ}49'N.$ on the lat.arc; $5^{\circ}22'N.$ on the decl.arc; and determine a meridian with the solar at the cor.of Tps:11 and 12 S., Rs.23 and 24E., heretofore described.

Thence I run .

South, along the W.bdy:of the Tp.,
bet.secs.1 and 6.

Descend over rocky land.

3.00 Bottom of hollow, 150 ft. deep, course W.

Ascend.

8.00 Enter scattering cedar and pinon timber.

38.00 Top of ridge bears E. and W.

Descend.

40.00 Set a sandstone, 24x8x3 ins., 18 ins.in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face;from which

A cedar 12 ins.diam., bears N. $43^{\circ}30'E.$, 12 lks.dist.,
marked $\frac{1}{4}$ S 6 B T.

A cedar, 5 ins.diam., bears S. $0^{\circ}30'W.$, 1.45 chs.dist.,
marked $\frac{1}{4}$ S 1 B T.

68.00 Bottom of hollow, 150 ft. deep, course W.

Ascend.

80.00 Set a sandstone, 20x10x4 ins., 15 ins.in the ground, for
cor.of secs:1-6-7 and 12, marked with 1 notch on the N.
and 5 notches on the S.edge;from which

A pinon, 5 ins.diam., bears N. $58^{\circ}E.$, 32 lks.dist.,
marked T 12 S R 24 E S 6 B T.

A cedar, 4 ins.diam., bears S. $8^{\circ}E.$, 33 lks.dist.,
marked T 12 S R 24 E S 7 B T.

A cedar, 4 ins.diam., bears N. $31^{\circ}W.$, 68 lks.dist.,

WEST BDY.OF T.12 S R., 24 E.

CHAINS

marked T 12 S R 23 E S 1 B T .

No other trees within limits; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

South, bet. secs. 7 and 12.

Ascend over rocky land through scattering cedar and pinon timber.

18.00 Top of spur projects W.

Descend.

20.60 Bottom of hollow, 75 ft. deep, course SW.

Ascend.

25.00 Top of spur projects W.

Descend.

28.00 Bottom of hollow, 100 ft. deep, course W.

Ascend.

34.00 Top of spur projects W.

Descend.

40.00 Set a sandstone, 20x10x3 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

41.50 Bottom of hollow, 100 ft. deep, course W.

Ascend.

50.00 Top of spur projects W.

Descend.

60.25 Bottom of hollow, 200 ft. deep, course NW.

Ascend.

80.00 Set a sandstone, 20x12x4 ins., 15 ins. in the ground, for cor. of secs. 7-12-13 and 18, marked with 2 notches on the

WEST. BDY. OF. T. 12. S., R. 24 E.

CHAINS

N. and 4 notches on the S.edges; from which

A cedar, 12 ins. diam., bears N. 31° E., 52 lks. dist.,
marked T 12 S R 24 E S 7 B T.

A cedar, 10 ins. diam., bears S. 38° E., 78 lks. dist.,
marked T 12 S R 24 E S 18 B T.

A cedar, 8 ins. diam., bears S. 14° W., 48 lks. dist.,
marked T 12 S R 23 E S 13 B T.

A cedar, 12 ins. diam., bears N. 24° W., 32 lks. dist.,
marked T 12 S R 23 E S 12 B T.

Land, mountainous.

Soil, rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

South bet. secs. 13 and 18.

Ascend over rocky land through scattering cedar and
pinon timber.

29.00 Top of spur projects NW.

Descend.

39.00 Bottom of hollow, 75 ft. deep, course NW.

Ascend.

40.00 Set a sandstone, 20x10x3 ins., 15 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which

A cedar, 10 ins. diam., bears S. 38° E., 2.13 chs. dist.,
marked $\frac{1}{4}$ S 18 B T.

A cedar, 9 ins. diam., bears S. 80° W., 85 lks. dist.,
marked $\frac{1}{4}$ S 13 B T.

60.50 Top of ridge, bears NE. and SW.

Descend.

69.00 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

80.00 Set a sandstone, 20x12x4 ins., 15 ins. in the ground, for
cor. of secs. 13-18-19 and 24, marked with 3 notches on the
N. and S. edges; from which

WEST EDY.OF T.12 S., R.24 E.

CHAINS

A pinon, 15 ins. diam., bears N. 13° E., 85 lks. dist., marked T 12 S R 24 E S 18 B T.

A pinon, 15 ins. diam., bears S. 15° E., 41 lks. dist., marked T 12 S R 24 E S 19 B T.

A pinon, 15 ins. diam., bears S. 33° W., 34 lks. dist., marked T 12 S R 23 E S 24 B T.

A pinon, 10 ins. diam., bears N. 13° W., 51 lks. dist., marked T 12 S R 23 E S 13 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

South, bet. secs. 19 and 24.

Ascend through scattering cedar and pinon timber.

3.00 Top of spur projects NE.

Descend.

8.50 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

24.00 Top of ridge bears NE. and SW.

Descend.

38.00 Bottom of hollow, 75 ft. deep, course NE.

Ascend.

40.00 Set a sandstone, 20x9x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which

A cedar, 14 ins. diam., bears S. 85° E., 1.50 chs. dist., marked $\frac{1}{4}$ S 19 B T.

A cedar, 7 ins. diam. bears S. 69° W., 1.32 chs. dist., marked $\frac{1}{4}$ S 24 B T.

Enter heavy cedar and pinon timber, bearing NE. and SW.

80.00 Set a sandstone, 24x8x5 ins., 18 ins. in the ground, for cor. of secs. 19-24-25 and 30, marked with 4 notches on the N. and 2 notches on the S. edge; from which

A pinon, 5 ins. diam., bears N. 23° E., 47 lks. dist.,

WEST BDY. OF T. 12 S., R. 24 E.

CHAINS

marked T 12 S R 24 E S 19 B.T.

A cedar, 12 ins. diam., bears S. 76° E., 41 lks. dist.,

marked T 12 S R 24 E S 30 B.T.

A pinon, 10 ins. diam., bears S. 4° W., 37 lks. dist.,

marked T 12 S R 23 E S 25 B.T.

A pinon, 10 ins. diam., bears N. 13° W., 51 lks. dist.,

marked T 12 S R 23 E S 24 B.T.

Land, mountainous.

Soil; rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous or heavily timbered land on 80.00 chs.

South bet. secs. 25 and 30.

Ascend over rocky land through heavy cedar and pinon timber.

40.00 Set a sandstone, 24x12x4 ins., 18 ins. in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which

A cedar, 12 ins. diam., bears S. 41° 30' E., 13 lks. dist., marked $\frac{1}{4}$ S 30 B.T.

A cedar, 14 ins. diam., bears S. 33° W., 8 lks. dist., marked $\frac{1}{4}$ S 25 B.T.

51.00 Top of spur projects NE.

Descend.

73.00 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

80.00 Set a sandstone, 24x10x3 ins., 18 ins. in the ground, for cor. of secs. 25-30-31 and 36, marked with 5 notches on the N. and 1 notch on the S. edge; from which

A pinon, 7 ins. diam., bears N. 63° E., 87 lks. dist., marked T 12 S R 24 E S 30 B.T.

A pinon, 7 ins. diam., bears S. 55° E., 75 lks. dist., marked T 12 S R 24 E S 31 B.T.

A cedar, 30 ins. diam., bears S. 14° W., 1.29 lks. dist., marked T 12 S R 23 E S 36 B.T.

WEST BDY. OF T.12 S., R.24 E.

CHAINS

A cedar, 15 ins. diam., bears N.0°05'W., 1.29 chs. dist., marked T 12 S R 23 E S 25 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous and heavily timbered land on 80.00 chs.

Sept. 9: At this cor., I set off 5°17'N. on the decl. arc; and at 11h 57m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 39°44'N.

South bet. secs. 31 and 36.

Ascend through scattering cedar and pinon timber.

10.00 Top of ridge bears E. and W.

Descend.

25.50 Head of hollow, course SW.

Ascend.

29.00 Top of spur projects SW.

Descend.

31.50 Head of hollow, course SW.

Ascend.

36.00 Top of spur projects SW.

Descend.

40.00 Set a sandstone, 20x8x7 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor.; marked $\frac{1}{4}$ on W. face; from which

A pinon, 14 ins. diam., bears N.28°E., 8 lks. dist., marked $\frac{1}{4}$ S 31 B T.

A pinon, 8 ins. diam., bears S.75°W., 31 lks. dist., marked $\frac{1}{4}$ S 36 B T.

80.00 Set a sandstone, 28x12x5 ins., 21 ins. in the ground, for cor. of Tps. 12 and 13 S., Rs. 23 and 24 E., marked with 6 notches on each edge; from which

A pinon, 24 ins. diam., bears N.73°E., 66 lks. dist., marked T 12 S R 24 E S 31 B T.

WEST BDY. OF T. 12 S., R. 24 E.

CHAINS

- A pinon, 5 ins. diam., bears S. $14^{\circ}30' E.$, 86 lks. dist., marked T 13 S R 24 E S 6 B T.
- A pinon, 12 ins. diam., bears S. $79^{\circ} W.$, 35 lks. dist., marked T 13 S R 23 E S 1 B T.
- A pinon, 6 ins. diam., bears N. $68^{\circ}30' W.$, 45 lks. dist., marked T 12 S R 23 E S 36 B T.

Land, mountainous.

Soil; rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

Sept. 9, 1904.

SOUTH BOUNDARY OF TOWNSHIP 12 SOUTH R. 24 E.

Sept. 10, 1904. At 8h a.m.l.m.t., I set off $39^{\circ}43' N.$ on the lat.arc; $4^{\circ}59' N.$ on the decl.arc; and determine a meridian with the solar at the cor. of Tps. 12 and 13 S., Rs. 24 and 25 E., heretofore described.

Thence I run west on a random line along the South boundary of the township, setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs., and at 478.39 chs. intersect the west boundary of the Tp., 57 lks. N. of the cor. of Tps. 12 and 13 S., Rs. 23 and 24 E., heretofore described. The falling answers to a correction of $0^{\circ}04'$, or 9 lks. S. per mile, counting from the SE.cor. of the Tp.

Therefore I run

N. $89^{\circ}56' E.$, on a true line bet. secs. 6 and 31.

Over rocky land ascend through scattering cedar and pinon timber.

10.00 Top of spur projects S.

Descend.

35.00 Bottom of hollow, 200 ft. deep, course S.

Begin abrupt ascent.

38.39 Set a sandstone, 24x12x3 ins., 18 ins. in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which

(8)

South BDY. OF T. 12 S., R. 24 E.

- 42.00 A cedar, 15 ins. diam., bears S. 20° E., 38 lbs. dist.,
marked $\frac{1}{4}$ S 6 B T.
- 43.00 A cedar, 24 ins. diam., bears N. 22° W., 18 lbs. dist.,
marked $\frac{1}{4}$ S 31 B T.
- 43.00 Top of spur projects S.
Descend.
- 56.00 Bottom of hollow, 100 ft. deep, course SW.
Ascend.
- 61.00 Top of ridge bears NE. and SW.
- 77.00 Leave timber.
- 78.39 Set a sandstone, 24x12x4 ins., 18 ins. in the ground, for
cor. of secs. 5-6-31 and 32, marked with 1 notch on the
W. and 5 notches on the E. edges from which
A pinon, 10 ins. diam., bears S. 65° 30' W., 1.93 chs. dist.,
marked T 13 S R 24 E S 1 B T.
- No other trees within limits; and raise a mound of stone,
2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
Pith impracticable.
- Land, mountainous.
- Soil: rocky, 3rd rate.
- Timber, cedar and pinon.
- Mountainous land on 78.39 chs.
- Sept. 10: At this cor., I set off 4° 54' N. on the decl. arc;
and at 11h 57m a.m., l.m.t., observe the sun on the meri-
dian: the resulting lat. is 39° 43' N.
-
- N. 89° 56' E., bet. secs. 5 and 32.
- Descend through dense artemisia.
- 4.00 Bottom of hollow, 100 ft. deep, course SW.
Ascend.
- 6.00 Enter heavy cedar and pinon timber, bearing N. and S.
Leave dense undergrowth.
- 21.00 Top of spur projects S.
Descend.
- 40.00 Set a post, 3 ft. long, 4 ins. sq., 24 ins. in the ground,

SOUTH BDY. OF T. 12 S. R 24 E.

CHAINS

for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S 32 on N., and 35 on S.face; from which

A cedar, 15 ins. diam., bears N. 23° W., 12 lks. dist., marked $\frac{1}{4}$ S 32B T.

A cedar, 10 ins. diam., bears south, 36 lks. dist., marked $\frac{1}{4}$ S 5 B T.

56.00 Bottom of hollow, 50 ft. deep, course S.

Ascend.

61.00 Top of ridge bears NW. and SE.

Descend.

80.00 Set a sandstone, 24x10x3 ins., 18 ins. in the ground, for cor. of secs. 4-5-32 and 33, marked with 2 notches on the W. and 4 notches on the E. edge; from which

A cedar 6 ins. diam., bears N. 21° E., 10 lks. dist., marked T 12 S R 24 E S 33 B T.

A cedar, 6 ins. diam., bears S. 86° E., 15 lks. dist., marked T 13 S R 24 E S 4 B T.

A pinon, 24 ins. diam., bears S. 53° W., 67 lks. dist., marked T 13 S R 24 E S 5 B T.

A pinon, 28 ins. diam., bears N. 58° W., 48 lks. dist., marked T 12 S R 24 E S 32 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, pine.

Mountainous or heavily timbered land or dense under growth on 80.00 chs.

N. 89° 56' E., bet. secs. 4 and 33.

Descend through scattering cedar and pinon timber and dense artemisia.

2.25 Bottom of hollow, 75 ft. deep, course N. Ascend.

6.00 Top of spur projects N. Descend.

26.00 Bottom of hollow, 100 ft. deep, course N.

Ascend.

SOUTH:BDY.OF T.12 S., R.24 E.

CHAINS

- 40.00 Set a sandstone, 24x7x3 ins., 18 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which
 A pinon, 12 ins. diam., bears N. 37° E., 1.87 chs.dist.,
 marked $\frac{1}{4}$ S 33 B T.
 A pinon, 6 ins. diam., bears S. 34° E., 1.29 chs.dist.,
 marked $\frac{1}{4}$ S 4 B T.
- 49.00 Top of spur projects N.
 Descend.
- 53.00 Leave timber.
- 72.50 Bottom of Center Fork of Asphalt Wash, 150 ft. deep, course
 N.
- 80.00 On top of ridge bearing N. and S.,
 Set a limestone, 24x12x3 ins., 18 ins. in the ground, for
 cor. of secs. 3-4-33 and 34, marked with 3 notches on the
 E. and W. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$
 ft. high, W. of cor.
 Pits impracticable.
 Land, mountainous.
 Soil: rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land and dense undergrowth on 80.00 chs.
-
- N. $89^{\circ}56'W.$, bet. secs. 3 and 34.
- Descend over rocky land through dense artemisia.
- 9.00 Bottom of hollow, 200 ft. deep, course N.
 Ascend.
 Enter scattering cedar and pinon timber.
- 16.00 Top of spur projects NW. Descend.
- 50.00 Bottom of hollow, 100 ft. deep, course N.
- 40.00 Set a sandstone, 16x14x4 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which
 A pinon, 6 ins. diam., bears N. $35^{\circ}50'W.$, 43 lks.dist.,
 marked $\frac{1}{4}$ S 34 B T,
 A cedar, 8 ins. diam., bears S. $82^{\circ}E.$, 37 lks.dist.,

SOUTH BDY. OF T. 12 S., R. 24 E.

CHAINS

- marked $\frac{1}{4}$ S 3 B.T.
- 55.00 Top of spur projects N.
Descend.
- 63.00 Bottom of hollow, 150 ft. deep, course N.
Ascend.
- 80.00 Set a sandstone, 16x12x3 ins., 11 ins. in the ground, for cor. of secs. 2-3-34 and 35, marked with 4 notches on the W. and 2 notches on the E. edges; from which
A pinon, 12 ins. diam., bears N. $5^{\circ}30'$ E., 90 lks. dist.,
marked T 12 S R 24 E S 35 B T.
A pinon, 12 ins. diam., bears S. $4^{\circ}E.$, 1.23 chs. dist.,
marked T 13 S R 24 E S 2 B T.
A pinon, 6 ins. diam., bears N. $33^{\circ}40'W.$, 1.17 chs. dist.,
marked T 12 S R 24 E S 34 B T.
No other trees within limits; and raise a mound of stone, 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, pine.
Mountainous and dense undergrowth on 80.00 chs.
-
- N. $89^{\circ}56'E.$, bet. secs. 2 and 35.
Ascend over rocky land through scattering cedar and pinon timber.
- 11.00 Top of ridge bears NW. and SE.
Descend.
- 26.00 Bottom of hollow, 200 ft. deep, course N.
Ascend.
- 32.00 Top of spur projects N.
Descend.
- 37.00 Leave timber.
- 40.00 Set a sandstone, 16x12x4 ins., 11 ins. in the ground, for for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of

SOUTH BOUNDARY OF T.12 S., R.24 E.

CHAINS	
	stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
41.00	Bottom of hollow, course NW.
62.00	Top of spur projects S.
	Enter scattering cedar and pinon timber.
70.00	Bottom of hollow, 150 ft. deep, course SW.
80.00	Set a sandstone, 18x16x4 ins., 12 ins. in the ground, for cor. of secs. 1-2-35 and 36, marked with 1 notch on the E. and 5 notches on the W. edge; from which
	A cedar, 20 ins., diam., bears N. $51^{\circ}10' E.$, 70 lks. dist., marked T 12 S R 24 E S 36 B T.
	A cedar, 18 ins. diam., bears S. $46^{\circ} E.$, 28 lks. dist., marked T 13 S R 24 E S 1 B T.
	A cedar, 10 ins. diam., bears S. $32^{\circ}45' W.$, 5 lks. dist., marked T 13 S R 24 E S 2 B T.
	A cedar, 10 ins. diam., bears N. $9^{\circ}55' W.$, 32 lks. dist., marked T 12 S R 24 E S 35 B T.
	Land, mountainous.
	Soil, rocky, 3rd rate.
	Timber, cedar and pinon.
	Mountainous land on 80.00 chs.
<hr/>	
	N. $89^{\circ}56' E.$, bet. secs. 1 and 36.
	Ascend over rocky land through scattering cedar and pinon timber.
4.00	Top of spur projects SW.
	Begin abrupt descent.
10.50	Bottom of hollow, 100 ft. deep, course SW.
	Ascend.
28.00	Top of ridge bears N. and S.
35.00	Head of hollow, course N.
	Ascend.
39.00	Top of spur projects N.
40.00	Set a sandstone, 18x12x3 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

SOUTH BOUNDARY OF T.12 S., R.24 E.

CHAINS

A pinon, 6 ins. diam., bears N. 27° E., 45 lks. dist.,
marked $\frac{1}{2}$ S 36 B T.
A pinon 10 ins. diam., bears S. $44^{\circ}25'$ E., 83 lks. dist.,
marked $\frac{1}{2}$ S 1 B T.
46.00 Head of hollow course N.
Ascend.
60.00 Top of spur projects N.
Descend.
64.00 Head of hollow course N.
Ascend.
78.00 Top of spur projects N.
Descend.
80.00 The cor. of Tps. 12 and 13 S., Rs. 24 and 25 E.
Land mountainous.
Soil, rocky, 3rd rate.
No timber.
Mountainous land on 80.00 chs.

Sept. 10, 1904.

BOUNDARIES OF T.12 S., R.24 E.

Latitudes, departures and closing errors.

Line Designated.	Course.	Latitudes.		Departures.	
		Dist. Chs.	N. Chs.	S. Chs.	E. Chs.
S. Bdy., T.12 S., R.24 E.,	S. $89^{\circ}59'$ W.,	477.71		0.14	477.71
W. bdy., T.12 S., R.24 E.,	South	480.00		480.00	
S. Bdy., T.12 S., R.24 E.,					
	N. $89^{\circ}56'$ E.,	478.39	0.57		478.39
Guide Meridian or					
E. bdy., T.12 S., R.24 E.,	North	480.00	480.00		
Convergency:					0.61
		480.57	480.14	478.39	478.32
Error in dep. and lat.		480.14		478.32	
		0.45		0.07	

SOUTH BDY. T.12 S., R.24 E.

Harvey D. Frist,
U.S. Deputy Surveyor.

Volume

#

R0326

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Harvey D. Heist

..... United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the E.bdy.T.9 S.R.21 E.; E. and S.bdys.T.9 S.R.22 E.; E.bdy.T.10 S.R.23 E.; E. and N.bdys. T.10 S.R.23 E.; N.bdy.T.10 S.R.24 E.; N.bdy.T.9 S.R.25 E.; N.bdy.T.10 S.R.25 E.; and W. and S.bdys.Tps.11 and 12 S.R.24 E. of the Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted.

Earl Woolley Chainman.

Heber Christensen Chainman.

Andrew Stumpf Moundman.

..... Moundman.

Edward J. Beaird Arman.

..... Arman.

John A. Neely Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D. Heist

..... United States Deputy Surveyor, in surveying all those parts or portions of the E.bdy.T.9 S.R.21 E.; E. and S.bdys.T.9 S.R.22 E.; E.bdy.T.10 S.R.23 E.; E. and N.bdys.T.10 S.R.24 E.; N.bdy.T.9 S.R.25 E.; N.bdy.T.10 S.R.25 E.; and W. and S.bdys.Tps.11 and 12 S.R.24 E. of the Salt Lake Base and meridian, State of Utah which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Earl Woolley Chainman.

Heber Christensen, Chainman.

Andrew Stumpf Moundman.

Edward J. Beaird Arman.

John A. Neely Flagman.

Subscribed and sworn to before me this 10th

day of Sept., 1904. xsw



John A. Neely
Notary Public

My commission expires Feb. 6, 1917.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harvey D. Heist, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of 12th day of April, 1904, 18XX, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the E.bdy. T.9 S.R.21 E.; E.bdy. T.9 S.R.22 E.; E.bdy. T.10 S.R.22 E.; E. and N.bdys. T.10 S.R.23 E. bdy. T.10 S.R.24 E.; N.bdy. T.9 S.R.25 E.; N.bdy. T.10 S.R.25 E.; and W. S.bdys. Tps.11 and 12 S.R.24 E. of the Salt Lake Base and meridian, in the State of Utah, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Harvey D. Heist

United States Deputy Surveyor

Subscribed by said Harvey D. Heist, and sworn to before me this 25th day of November, 1904.



Edward H. Anderson

U.S. Surveyor-General

for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 27, 18XX

The foregoing field notes of the survey of West and South Boundaries of Township No. 12 South, Range No. 24 East of the Salt Lake Base and Meridian, Utah

executed by Alfredo R. Talamantes and Harvey D. Heist, U.S. Deputy Surveyors under their contract No. 285, dated April 12, 1904, 18XX, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson

United States Surveyor

I certify that the foregoing transcript of the field notes of the above-described surveys in _____ has been correctly copied from the original notes on file in this office.

United States Surveyor Gen.

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BOOK A-326

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12

FILED

OCT 22 1904

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions
of
Township No. 17 South
Range No. 24 East

of the Saerdaker Base^{and} Meridian,
In the State of Utah

AS SURVEYED BY

Alfredo R Talamantes and Harvey D Heist,
United States Deputy Surveyors,
Under his Contract No. 285, dated April 12-1904, 189
Survey commenced Sept 11-1904, 189
Survey completed Sept 18-1904, 189

6-161

High 59.70 33

NAMES AND DUTIES OF ASSISTANTS.

EARL WOOLLEY

CHAINMAN.

HEBER CHRISTENSEN

CHAINMAN.

ANDREW STUMPF

MOUNDMAN.

EDWARD J. BEAIRD

AXMAN.

JOHN A. NEELY

FLAGMAN.

For preliminary affidavits see book "D" T.9 S.R.21 E.

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____.

, Chai,

, Chai,

Subscribed and sworn to before me this _____
day of _____, 189 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____.

, Mound,

, Mound,

Subscribed and sworn to before me this _____
day of _____, 189 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____.

, Axn,

, Axn,

Subscribed and sworn to before me this _____
day of _____, 189 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____.

, Flagm,

Subscribed and sworn to before me this _____
day of _____, 189 }



SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

SURVEY commenced Sept. 11, 1904, and executed with the instrument described in book "A" of this survey. I know the instrument to be in adjustment from recent observations made Sept. 7, 1904, and recorded in book "Z" of this survey.

At 8h a.m., l.m.t., I set off $39^{\circ}43'N.$ on the lat.arc; $4^{\circ}36'N.$ on the decl.arc; and determine a meridian with the solar at the cor. of secs. 1-2-35 and 36, heretofore described in the S.bdy. of the Tp.

Thence I run

$N.0^{\circ}01'W.$, bet. secs. 35 and 36.

Descend through scattering cedar and pinon timber.

12.00 Bottom of hollow, 100 ft. deep, course SW.

Ascend.

36.00 Top of ridge bears NE. and SW.

Descend.

40.00 Set a sandstone, 16x9x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which

A pinon, 4 ins. diam., bears $N.83^{\circ}W.$, 30 lks. dist.,

marked $\frac{1}{4}$ S 35 B T.

A pinon, 10 ins. diam., bears $S.40^{\circ}50'E.$, 23 lks. dist.,

marked $\frac{1}{4}$ S 36 B T.

80.00 Set a sandstone, 16x14x4 ins., 11 ins. in the ground, for cor. of secs. 25-26-35 and 36, marked with 1 notch on the S. and E. edge; from which

A pinon, 14 ins. diam., bears $N.55^{\circ}E.$, 1.15 chs. dist.,

marked T 12 S R 24 E S 25 B T.

A pinon, 8 ins. diam., bears $S.54^{\circ}E.$, 85 lks. dist.,

marked T 12 S R 24 E S 36 B T.

No other trees within limits; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land mountainous.

Soil rocky; 3d rate.

Timber cedar and pinon pine.

Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- N. $89^{\circ}56'$ E. on a random line bet. secs. 25 and 36.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.22 Intersect E. bdy. of the Tp., 32 lks. S. of the cor. of secs. 25-30-31 and 36, heretofore described.
- Thence I run
- S. $89^{\circ}42'$ W., on a true line
bet. secs. 25 and 36.
- Ascend over rocky land through scattering cedar and pinon timber.
- 34.00 Top of ridge bears NE. and SW.
- Descend.
- 40.11 Set a sandstone, 16x14x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
- A pinon, 8 ins. diam., bears N. $11^{\circ}45'$ W., 17 lks. dist., marked $\frac{1}{4}$ S 25 B T.
- A pinon, 8 ins. diam., bears S. $50^{\circ}35'$ W., 56 lks. dist., marked $\frac{1}{4}$ S 36 B T.
- 44.00 Bottom of hollow, 100 ft. deep, course N.
- Ascend.
- 49.00 Top of ridge bears N. and S.
- Descend.
- 61.00 Bottom of hollow, 150 ft. deep, course N.
- 74.00 Top of spur projects N.
- Descend.
- 80.22 The cor. of secs. 25-26-35 and 36.
- Land, mountainous.
- Soil: rocky, 3rd rate.
- Timber, cedar and pinon.
- Mountainous land on 80.22 chs.
-
- N. $0^{\circ}01'$ W., bet. secs. 25 and 26.
- Descending over mountainous land.
- 1.00 Bottom of hollow 100 ft. deep, course NE.
- Ascend.

(8)

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS

- 40.00 Set a sandstone, 18x16x3 ins., 12 ins. in the ground, for
 $\frac{1}{4}$ sec.cor.; marked $\frac{1}{4}$ on W.face; from which
 A cedar, 11 ins. diam., bears S. $38^{\circ}45' E.$, 23 lks. dist.,
 marked $\frac{1}{4}$ S 25 B T.
 A pinon, 10 ins. diam., bears N. $79^{\circ}50' W.$, 38 lks. dist.,
 marked $\frac{1}{4}$ S 26 B T.
- 62.00 Top of ridge bears NE. and SW.
 Descend.
- 71.00 Bottom of hollow, 100 ft. deep, course NW.
 Ascend.
- 80.00 Set a sandstone, 16x16x3 ins., 11 ins. in the ground, for
 cor. of secs. 23-24-25 and 26, marked with 2 notches on the
 S. and 1 notch on the E. edge; from which
 A piñon, 14 ins. diam., bears S. $51^{\circ}E.$, 66 lks. dist.,
 marked T 12 S R 24 E S 25 B T.
 A pinon, 10 ins. diam., bears N. $15^{\circ}45' E.$, 24 lks. dist.,
 marked T 12 S R 24 E S 24 B T.
 A pinon, 18 ins. diam., bears S. $32^{\circ}W.$, 90 lks. dist.,
 marked T 12 S R 24 E S 26 B T.
 A cedar, 8 ins. diam., bears N. $35^{\circ}W.$, 1.68 chs. dist.,
 marked T 12 S R 24 E S 23 B T.
 Land, mountainous.
 Soil; rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 80.00 chs.
-
- N. $89^{\circ}42' E.$ on a random line bet. secs. 24 and 25.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 80.20 Intersect N. bdy. of the Tp., 19 lks. N. of the cor. of secs.
 19-24-25 and 30, heretofore described.
 Thence I run
 S. $89^{\circ}50' W.$, on a true line,
 bet. secs. 24 and 25.
 Descend over mountainous land through scattering cedar

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- and pinon timber.
- 11.00 Bottom of hollow, 150 ft. deep, course NE.
Ascend.
- 19.00 Top of spur projects NE.
Descend.
- 24.00 Bottom of hollow, 100 ft. deep, course NE.
Ascend.
- 35.00 Top of ridge bears NE. and SW.
Descend.
- 40.10 Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
A cedar, 10 ins. diam., bears N. $18^{\circ}45'W.$, 36 lks. dist.,
marked $\frac{1}{4}$ S 24 B T.
A cedar, 6 ins. diam., bears S. $41^{\circ}30'E.$, 76 lks. dist.,
marked $\frac{1}{4}$ S 25 B T.
- 48.00 Bottom of hollow, 150 ft. deep, course NE.
Ascend.
- 63.00 Top of spur projects S.
Descend.
- 68.50 Bottom of hollow, 100 ft. deep, course S.
Ascend.
- 75.00 Top of ridge bears N. and S.
Descend.
- 80.20 The cor. of secs. 23-24-25 and 26.
Land, mountainous.
Soil; rocky, 3rd rate.
Timber cedar and pinon.
Mountainous land on 80.20 chs.
Sept. 11: At this cor., I set off $4^{\circ}31'N.$ on the decl.
arc; and at 11h 57m a.m., l.m.t., observe the sun on the
meridian; the resulting lat. is $39^{\circ}45'N.$
-
- N. $0^{\circ}01'W.$, bet. secs. 23 and 24.
Ascend through scattering cedar and pinon timber.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAIN

- 15.00 Top of spur projects W.
Descend.
- 28.00 Head of hollow, course W.
Ascend.
- 40.00 Set a sandstone, 16x12x4 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which
A pinon, 14 ins. diam., bears N. $75^{\circ}30'W.$, 1.32 chs. dist.
marked $\frac{1}{4}$ S 23 B.T.
A cedar, 9. ins. diam., bears S. $47^{\circ}40'E.$, 37. lks. dist.,
marked $\frac{1}{4}$ S 24 B.T.
- 57.00 Top of ridge bears NW. and SE.
Descend.
- 66.50 Bottom of hollow, 50 ft. deep, course NW.
Ascend.
- 80.00 Set a sandstone, 16x8x6 ins., 11 ins. in the ground, for
cor. of secs. 13-14-23 and 24, marked with 3 notches on the
S. and 1 notch on the E. edge; from which
A pinon, 18 ins. diam., bears N. $88^{\circ}30'E.$, 56 lks. dist.,
marked T 12 S R 24 E S 13 B.T.
A pinon, 4 ins. diam., bears S. $51^{\circ}45'E.$, 63 lks. dist.,
marked T 12 S R 24 E S 24 B.T.
A pinon, 10 ins. diam., bears S. $22^{\circ}30'W.$, 9 lks. dist.,
marked T 12 S R 24 E S 23 B.T.
A pinon, 12 ins. diam., bears N. $24^{\circ}50'W.$, 1.39 chs. dist.
marked T 12 S R 24 E S 14 B.T.
- Land, mountainous.
Soil; rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.00 chs.
-
- N. $89^{\circ}50'E.$ on a random line bet. secs. 13 and 24.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 80.10 Intersect E. bdy. of the Tp., 12 lks. N. of the cor. of secs.
13-18-19 and 24, heretofore described.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- Thence I run
 S. $89^{\circ}55'W.$, on a true line
 bet. secs. 13. and 24.
- Ascend over rocky land through scattering cedar and pinon timber.
- 27.00 Top of ridge bears N. and S.
- Descend.
- 40.05 Set a sandstone, 16x13x3 ins., 11 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
 A pinon, 4 ins. diam., bears N. $40^{\circ}E.$, 40 lks. dist.,
 marked $\frac{1}{4}$ S 13 B T.
 A cedar, 8 ins. diam., bears S. $11^{\circ}E.$, 7 lks. dist.,
 marked $\frac{1}{4}$ S 24 B T.
- 41.50 Bottom of gulch, 250 ft. deep, course N.
- Ascend.
- 61.00 Top of spur projects N.
- Descend.
- 69.00 Head of hollow, course N.
- Ascend.
- 73.00 Top of ridge bears NW. and SE.
- Descend.
- 80.10 The cor. of secs. 13-14-23 and 24.
 Land, mountainous.
 Soil: rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 80.10 chs.
-
- N. $0^{\circ}01'W.$, bet. secs. 13 and 14.
- Ascend over mountainous land through scattering cedar and pinon timber.
- 27.00 Top of ridge bears NW. and SE.
- Descend.
- 40.00 Set a sandstone, 14x14x4 ins., 9 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS

- A pinon, 16 ins. diam., bears S. 72° E., 85 lks. dist., marked $\frac{1}{4}$ S 13 B T.
- A cedar, 6 ins. diam., bears N. $50^{\circ}45'W.$, 1.05 chs. dist., marked $\frac{1}{4}$ S 14 B T.
- 69.00 Bottom of gulch, 150 ft. deep, course NW. to N.
Descend along bottom of gulch.
- 76.00 Leave bottom of gulch, course N. to NW.
Ascend.
- 80.00 Set a sandstone, 16x14x3 ins., 11 ins. in the ground, for cor. of secs. 11-12-13 and 14, marked with 4 notches on the S. and 1 notch on the E. edge; from which
A pinon, 6 ins. diam., bears N. $10^{\circ}10'E.$, 42 lks. dist., marked T 12 S R 24 E S 12 B T.
A cedar, 18 ins. diam., bears S. $17^{\circ}30'E.$, 64 lks. dist., marked T 12 S R 24 E S 13 B T.
A pinon, 6 ins. diam., bears S. $31^{\circ}W.$, 33 lks. dist., marked T 12 S R 24 E S 14 B T.
A cedar, 11 ins. diam., bears N. $51^{\circ}45'W.$, 85 lks. dist., marked T 12 S R 24 S 11 B T.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.00 chs.
-
- N. $89^{\circ}55'W.$ on a random line bet. secs. 12 and 13.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Intersect E. bdy. of the Tp., 9 lks. N. of the cor. of secs. 7-12-13 and 18, heretofore described.
Thence I run
S. $89^{\circ}59'W.$, on a true line
bet. secs. 12 and 13.
Ascend over rocky land through scattering cedar and pinon timber.
- 15.00 Top of spur projects S.
Descend.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- 19.00 Head of hollow, course S..
Ascend.
- 30.00 Top of spur projects S..
Descend.
- 40.02 Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which
A pinon, 12 ins. diam., bears N. 55° W., 1.03 chs.dist.,
marked $\frac{1}{4}$ S 12 B T.
A pinon, 6 ins. diam., bears S. 26° E., 56 lks.dist.,
marked $\frac{1}{4}$ S 13 B T.
- 54.00 Bottom of gulch, 200 ft. deep, course NW.
Ascend abruptly.
- 74.00 Top of ridge bears NW. and SE.
Descend..
- 80.04 The cor.of secs. 11-12-13 and 14.
Land, mountainous..
Soil; rocky, 3rd rate.
Timber, cedar and pinon...
Mountainous land on 80.04 chs.

Sept. 11, 1904.

Sept. 12: At 8h a.m., l.m.t., I set off $39^{\circ}47'N.$ on the lat. arc; $4^{\circ}13'N.$ on the decl. arc; and determine a meridian with the solar at the cor.of secs. 11-12-13 and 14. Thence I run.

N. $0^{\circ}01'W.$, bet.secs. 11 and 12.

- Ascend over rocky land through scattering cedar and pinon timber.
- 8.00 Top of spur projects NW.
Descend.
- 14.00 Bottom of hollow, 200 ft. deep, course NW.
Ascend.
- 40.00 Set a sandstone, 16x14x6 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS

- stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
- 55.50 Bottom of hollow, 150 ft. deep, course W.
Ascend.
- 60.00 Top of spur projects W.
Descend.
- 66.00 Bottom of hollow, 100 ft. deep, course W.
Ascend.
- 74.00 Top of spur projects W.
Descend.
- 80.00 Set a sandstone, 16x6x3 ins., 11 ins. in the ground, for cor. of secs. 1-2-11 and 12, marked with 5 notches on the S. and 1 notch on the E. edge; from which
 A cedar, 4 ins. diam., bears N. $1^{\circ}20' E.$, 45 lks. dist.,
 marked T 12 S R 24 E S 1 B T.
 A cedar, 4 ins. diam., bears S. $51^{\circ}30' E.$, 84 lks. dist.,
 marked T 12 S R 24 E S 12 B T.
 A cedar, 6 ins. diam., bears S. $87^{\circ}45' W.$, 1.00 ch. dist.,
 marked T 12 S R 24 E S 11 B T.
 No other trees within limits; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil; rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.00 chs.
-
- N. $89^{\circ}59' E.$ on a random line bet. secs. 1 and 12.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.92 Intersect E. bdy. of the Tp., 14 lks. N. of the cor. of secs. 1-6-7 and 12, heretofore described.
Thence I run
 N. $89^{\circ}55' W.$, on a true line
 bet. secs. 1 and 12.

SUBDIVISIONS OF T. 12 S R 24 E.

CHAINS	
	Over mountainous land ascend through scattering cedar and pinon timber.
6.00	Top of spur projects N. Descend.
33.00	Bottom of hollow, 50 ft. deep, course N. Ascend.
39.96	Set a sandstone, 18x16x3 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which A pinon, 18 ins. diam., bears N.4°W., 2 lks. dist., marked $\frac{1}{4}$ S 1 B T. A pinon, 30 ins. diam., bears S., 70 lks. dist., marked $\frac{1}{4}$ S 12 B T.
42.00	Top of ridge bears NE. and SW. Descend.
71.00	Bottom of hollow, 100 ft. deep, course NW. Ascend.
79.92	The cor. of secs. 1-2-11 and 12. Land, mountainous. Soil: rocky, 3rd rate. Timber, pinon and cedar. Mountainous land on 79.92 chs.
	N.0°01'W., on a random line bet. secs. 1 and 2.
40.00	Set temp. $\frac{1}{2}$ sec.cor.
80.02	Intersect N.bdy. of the Tp., 5 lks. W. of the cor. of secs. 1-2-35 and 36, heretofore described. Thence I run S.0°01'W., bet. secs. 1 and 2. Over mountainous land ascend through scattering cedar and pinon timber.
40.02	Set a sandstone, 18x16x3 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which A cedar, 6 ins. diam., bears N.57°E., 22 lks. dist., marked $\frac{1}{4}$ S 1 B T.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS

A pinon, 4 ins. diam., bears S. $33^{\circ}45'W.$, 63 lks. dist., marked $\frac{1}{4}$ S 2 B T.

41.00 Top of ridge bears NE. and SW.
Descend.

52.00 Bottom of hollow, 50 ft. deep, course SW.
Ascend.

61.00 Top of spur projects W.
Descend.

79.50 Bottom of hollow, 100 ft. deep, course W.
Ascend.

80.02 The cor. of secs. 1-2-11 and 12.
Land, mountainous.
Soil; rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.02 chs.
Sept. 12: At this cor., I set off $4^{\circ}9'N.$ on the decl. arc; and at 11h 56m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is $39^{\circ}49'N.$

From the corner of secs. 2, 3, 34, and 35 on the S. bdy. of the township, heretofore described, I run $0^{\circ}00'N.$ N. $0^{\circ}01'W.$ bet. secs. 34 and 35
Ascend over rocky land; through scattering cedar and pinon timber.

23.00 Top of spur projects W.; Descend: W.
34.00 Bottom of hollow, 100 ft. deep, course W. Ascend.
40.00 Set a sandstone, 20x8x8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.

43.00 Top of ridge bears E. and W.
Descend.

47.00 Bottom of hollow, 100 ft. deep, course W.
Ascend.

SUBDIVISIONS OF T. 12 S R., 24 E.

CHAINS	
53.00	Top of ridge bears E. and W. Descend.
61.00	Bottom of hollow, 75 ft. deep, course SW. Ascend.
71.00	Top of ridge bears E. and W. Descend.
80.00	Set a sandstone, 20x10x4 ins., 15 ins. in the ground, for cor. of secs. 26-27-34 and 35, marked with 1 notch on the S. and 2 notches on the E. edge; from which A pinon, 14 ins. diam., bears N. $31^{\circ}30' E.$, 12 lks. dist., marked T 12 S R 24 E S 26 B T. A pinon, 10 ins. diam., bears S. $61^{\circ} E.$, 64 lks. dist., marked T 12 S R 24 E S 35 B T. A pinon, 12 ins. diam., bears S. $32^{\circ} W.$, 61 lks. dist., marked T 12 S R 24 E S 34 B T. A pinon, 10 ins. diam., bears N. $17^{\circ}30' W.$, 48 lks. dist., marked T 12 S R 24 E S 27 B T. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 80.00 chs.
40.00	N. $89^{\circ}56' E.$ on a random line bet. secs. 26 and 35. Set temp. $\frac{1}{4}$ sec. cor.
79.90	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 25-26-35 and 36. Thence I run West on a true line bet. secs. 26 and 35.
1.50	Descend over mountainous land through scattering cedar and pinon timber.) Bottom of hollow, 150 ft. deep, course NE. Ascend.
16.00	Top of ridge bears NE. and SW.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

	Descend.
37.00	Bottom of hollow, 100 ft. deep, course NW.
	Ascend.
39.95	Set a sandstone, 18x8x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which A pinon, 14 ins. diam., bears N. 30° W., 89 lks.dist., marked $\frac{1}{4}$ S 26 B T.
	A pinon, 12 ins. diam., bears S. 76° W., 84 lks.dist., marked $\frac{1}{4}$ S 35. B T.
42.00	Top of ridge bears NW. and SE.
	Descend.
65.00	Bottom of hollow, 100 ft. deep, course NW.
	Ascend.
79.90	The cor. of secs. 26-27-34 and 35. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 79.90 chs.
	N. $0^{\circ}01'$ W., bet. secs. 26 and 27. Descend over mountainous land through scattering cedar and pinon timber.
5.00	Bottom of hollow, 50 ft. deep, course NW.
	Ascend.
35.00	Top of ridge bears NW. and SE.
	Descend.
40.00	Set a sandstone, 14x8x6 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which A pinon, 8 ins. diam., bears S. $66^{\circ}30'$ E., 50 lks.dist., marked $\frac{1}{4}$ S 26 B T. A pinon, 6 ins. diam., bears S. 70° W., 20 lks.dist., marked $\frac{1}{4}$ S 27 B T.
55.00	Bottom of hollow, 150 ft. deep, course NW.
	Ascend.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS

- 63.50 Top of spur projects SW.
Descend.
68.00 Bottom of hollow, 50 ft. deep, course SW.
Ascend.
80.00 Set a sandstone, 24x12x3 ins., 18 ins. in the ground, for cor. of secs. 22-23-26 and 27, marked with 2 notches on the S. and E. edges; from which
A pinon, 14 ins. diam., bears N. 77° E., 54 lks. dist.,
marked T 12 S R 24 E S 23 B T.
A pine, 14 ins. diam., bears S. 52° 30' E., 1.11 chs. dist.,
marked T 12 S R 24 E S 26 B T.
A pinon, 4 ins. diam., bears S. 43° W., 26 lks. dist.,
marked T 12 S R 24 E S 27 B T.
A pinon, 8 ins. diam., bears N. 5° W., 37 lks. dist.,
marked T 12 S R 24 E S 22 B T.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.00 chs.

Sept. 12, 1904.

- Sept. 13: At 2h a.m., 1.m.t., I set off 39° 45' N. on the lat. arc; 3° 49' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 22-23-26 and 27.
Thence I run
East on a random line bet. secs. 23 and 26.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.88 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 23-24-25 and 26.
Thence I run
S. 89° 58' W., on a true line
bet. secs. 23 and 26.
Descend over rocky land through scattering cedar and pinon timber.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS	
2.00	Bottom of hollow, 100 ft. deep, course N.
	Ascend.
15.00	Top of spur projects NE.
	Descend.
24.00	Bottom of hollow, 50 ft. deep, course NE.
	Ascend.
33.50	Top of spur projects NE.
	Descend.
39.94	In bottom of hollow, 50 ft. deep, course NE., Set a sandstone, 14x8x6 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A cedar, 8 ins. diam., bears N. 61° W., 2.91 chs. dist., marked $\frac{1}{4}$ S 23 B T. A cedar, 8 ins. diam., bears S. 56° E., 1.63 chs. dist., marked $\frac{1}{4}$ S 26 B T.
	Ascend.
60.00	Top of ridge bears N. and S.
	Descend.
72.00	Bottom of hollow, 100 ft. deep, course SW.
	Ascend.
75.50	Top of spur projects S.
	Descend.
79.88	The cor. of secs. 22-23-26 and 27. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 79.88 chs.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS	N.0°01'W., bet. secs. 22 and 23.
	Descend gradually through scattering cedar and pinon timber, over broken rocky land.
40.00	Set a sandstone, 20x8x3 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which A cedar, 10 ins. diam., bears N.22°E., 15 lks. dist., marked $\frac{1}{4}$ S 23 B T. A cedar, 10 ins. diam., bears S.82°W., 41 lks. dist., marked $\frac{1}{4}$ S 22 B T.
80.00	Set a sandstone, 18x10x6 ins., 12 ins. in the ground, for cor. of secs. 14-15-22 and 23, marked with 3 notches on the S. and 2 notches on the E. edge; from which A pinon, 10 ins. diam., bears N.40°E., 60 lks. dist., marked T 12 S R 24 E S 14 B T. A pinon, 14 ins. diam., bears S.9°E., 32 lks. dist., marked T 12 S R 24 E S 23 B T. A pinon, 14 ins. diam., bears S.54°W., 48 lks. dist., marked T 12 S R 24 E S 22 B T. A pinon, 10 ins. diam., bears N.80°W., 39 lks. dist., marked T 12 S R 24 E S 15 B T.
	Land, mountainous.
	Soil: rocky, 3rd rate.
	Timber, pinon and cedar.
	Mountainous land on 80.00 chs.

	N.89°58' E. on a random line bet. secs. 14 and 23.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.06	Intersect N. and S. line, 7 lks. S. of the cor. of secs. 13-14-23 and 24. Thence I run S.89°55'W., on a true line bet. secs. 14 and 23.
	Descend over rocky land through scattering cedar and pinon timber.
4.25	Bottom of hollow, 100 ft. deep, course N.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS

- Ascend.
- 11.50 Top of spur projects N.
- Descend.
- 19.25 Bottom of hollow, 175 ft. deep, course N.
- Ascend.
- 28.00 Top of spur projects NE.
- Descend.
- 40.03 Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- Pits impracticable.
- 80.06 The cor. of secs. 14-15-22 and 23.
- Land, mountainous.
- Soil; rocky, 3rd rate.
- Timber, cedar and pinon.
- Mountainous land on 80.06 chs.
-
- N. $0^{\circ}01'W.$, bet. secs. 14 and 15.
- Descend over broken land through scattering cedar and pinon timber.
- 6.00 Bottom of hollow, 100 ft. deep, course NE.
- Ascend.
- 23.00 Top of spur projects E.
- Descend.
- 34.50 Bottom of hollow, 150 ft. deep, course E.
- Ascend.
- 40.00 Set a sandstone, 14x8x6 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
- A pinon, 6 ins. diam., bears S $74^{\circ}E.$, 76 lks. dist., marked $\frac{1}{4}$ S 14 B T.
- A pinon, 8 ins. diam., bears N. $73^{\circ}W.$, 87 lks. dist., marked $\frac{1}{4}$ S 15 B T.
- 46.00 Top of spur projects E.
- Descend.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS	
54.00	Bottom of hollow, 100 ft. deep, course E. Ascend.
57.00	Top of ridge bears NW. and SE. Descend.
65.00	Bottom of hollow, 75 ft. deep, course NW. Ascend.
69.00	Top of spur projects W. Descend.
71.50	Bottom of hollow, 100 ft. deep, course W. Ascend.
75.00	Top of spur projects W. Descend.
80.00	Set a sandstone, 24x6x6 ins., 18 ins. in the ground, for cor. of secs. 10-11-14 and 15, marked with 4 notches on the S. and 2 notches on the E. edge; from which A cedar, 6 ins. diam., bears N. 57° E., 1.90 chs. dist., marked T 12 S R 24 E S 11 B T. A cedar, 10 ins. diam., bears S. 35° 30' E., 2.01 chs. dist., marked T 12 S R 24 E S 14 B T. A cedar, 12 ins. diam., bears S. 57° W., 41 lks. dist., marked T 12 S R 24 E S 15 B T. A cedar, 6 ins. diam., bears N. 81° W., 2.83 chs. dist., marked T 12 S R 24 E S 10 B T. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 80.00 chs. Sept. 13: At this cor., I set off 3° 46' N. on the decl. arc; and at 11h 56m a.m., 1.m.t., observe the sun on the meridian; the resulting lat, is 39° 47' N. ----- N. 89° 55' E. on a random line bet. secs. 11 and 14.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. and S. line, 5 lks. N. of the cor. of secs.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

11-12-13 and 14.

Thence I run.

S, $89^{\circ}57'W.$, on a true line

bet. secs. 11 and 14.

Over mountainous land through scattering cedar and pinon timber, descend.

3.00 Bottom of hollow, 100 ft. deep, course NW.

Ascend.

28.00 Top of spur projects N.

Descend.

35.75 Bottom of hollow, 300 ft. deep, course N.

Ascend.

40.04 Set a sandstone, $16 \times 14 \times 3$ ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits, $18 \times 18 \times 12$ ins., E. and W. of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

74.75 Top of ridge bears N. and SE.

Descend.

80.08 The cor. of secs. 10-11-14 and 15.

Land, mountainous.

Soil; rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.08 chs.

N. $0^{\circ}01'W.$, bet. secs. 10 and 11.

Descend over rocky land through scattering cedar and pinon timber.

6.00 Bottom of hollow, 75 ft. deep, course NW.

Ascend.

10.00 Top of spur projects W.

Begin abrupt descent.

12.00 Bottom of hollow, 50 ft. deep, course W.

Begin abrupt ascent.

17.00 Top of spur projects W.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS	
	Descend.
22.00	Bottom of hollow, 50 ft. deep, course W.
	Ascend.
24.50	Top of spur projects W.
	Descend.
30.00	Bottom of hollow, 100 ft. deep, course W.
	Begin abrupt ascent.
33.00	Top of spur projects NW.
	Descend.
40.00	Set a sandstone, 20x6x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A cedar, 5 ins. diam., bears S. 23° E., 54 lks. dist., marked $\frac{1}{4}$ S 11 B T. A cedar, 6 ins. diam., bears S. 15° W., 49 lks. dist., marked $\frac{1}{4}$ S 10 B T.
72.50	Bottom of ravine, 100 ft. deep, course W.
	Begin abrupt ascent.
75.00	Top of spur projects W.
	Descend.
80.00	Set a sandstone, 20x10x3 ins., 15 ins. in the ground, for cor. of secs. 2-3-10 and 11, marked with 5 notches on the S. and 2 notches on the E. edge; from which A pinon, 8 ins. diam., bears N. 66° 30' E., 33 lks. dist., marked T 12 S R 24 E S 2 B T. A pinon, 5 ins. diam., bears S. 6° E., 29 lks. dist., marked T 12 S R 24 E S 11 B T. A pinon, 8 ins. diam., bears S. 84° W., 1.03 chs. dist., marked T 12 S R 24 E S 10 B T. A pinon, 6 ins. diam., bears N. 47° 30' W., 88 lks. dist., marked T 12 S R 24 E S 3 B T.
	Land, mountainous.
	Soil: rocky, 3rd rate.
	Timber, cedar and pinon.
	Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- N. $89^{\circ}57' E.$ on a random line bet. secs. 2 and 11.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 1-2-11 and 12.
- Thence I run
- $89^{\circ}59' W.$, on a true line
bet. secs. 2 and 11.
- Descend over rocky land.
- 15.00 Bottom of hollow, 200 ft. deep, course S.
- Begin abrupt ascent.
- 28.00 Top of spur projects S.
- Descend.
- 40.02 Set a sandstone, $24 \times 10 \times 3$ ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- Pits impracticable.
- 57.00 Bottom of hollow, 300 ft. deep, course NW.
- Ascend.
- 65.00 Top of spur projects N.
- Descend.
- 71.50 Bottom of hollow, 100 ft. deep, course N.
- Ascend.
- 76.00 Top of spur projects N.
- Descend.
- 80.04 The cor. of secs. 2-3-10 and 11.
- Land, mountainous.
- Soil: rocky, 3rd rate.
- Timber, none.
- Mountainous land on 80.04 chs.
-
- N. $0^{\circ}01' W.$, on a random line bet. secs. 2 and 3.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.02 Intersect N. bdy. of the Tp., 7 lks. E. of the cor. of secs. 2-3-34 and 35, heretofore described.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- Thence I run .
 S. $0^{\circ}04'$ E., on a true line
 bet. secs. 2 and 3.
- Ascend along top of spur, through scattering cedar and pinon timber.
- 20.00 Junction of spur projecting N., with ridge bearing E. and W.
- Descend.
- 24.00 Bottom of hollow, 100 ft. deep, course W.
- Ascend abruptly.
- 30.00 Top of spur projects W.
- Descend.
- 40.02 Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
 A cedar, 6 ins. diam., bears N. $19^{\circ}E.$, 52 lks. dist.,
 marked $\frac{1}{4}$ S 2 B T.
 A cedar, 6 ins. diam., bears N. $64^{\circ}30'W.$, 54 lks. dist.,
 marked $\frac{1}{4}$ S 3 B T.
- 52.00 Bottom of hollow, 200 ft. deep, course SW.
- Begin abrupt ascent.
- 55.00 Top of spur projects W.
- Descend.
- 68.00 Bottom of hollow, 200 ft. deep, course NW.
- Ascend.
- 80.02 The cor. of secs. 2-3-10 and 11.
 Land, mountainous.
 Soil: rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 80.02 chs. Sept. 13, 1904.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

Sept. 14: At 8h a.m., l.m.t., I set off $39^{\circ}43'N.$ on the lat. arc; $3^{\circ}27'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3-4-33 and 34, heretofore described, on the S.bdy. of the Tp.

Thence I run

$N.0^{\circ}02'W.$, bet. secs. 33 and 34.

On top of ridge bearing N. and S., ascend gradually through dense artemisia.

23.00 Leave top of ridge bearing NW. and S. Descend.

40.00 Set a sandstone, $16 \times 10 \times 4$ ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

56.00 Bottom of hollow, 200 ft. deep, course E.

Ascend.

Enter scattering cedar and pinon timber.

76.00 Top of spur projects NE.

Descend.

80.00 Set a sandstone, $18 \times 12 \times 3$ ins., 12 ins. in the ground, for cor. of secs. 27-28-33 and 34, marked with 1 notch on the S. and 3 notches on the E. edge; from which

A pinon, 16 ins. diam., bears $N.89^{\circ}E.$, 2.21 chs. dist., marked T 12 S R 24 E S 27 B T.

A pinon, 5 ins. diam., bears $S.69^{\circ}E.$, 1.55 chs. dist., marked T 12 S R 24 E S 34 B T.

A pinon, 14 ins. diam., bears $S.19^{\circ}W.$, 2.55 chs. dist., marked T 12 S R 24 E S 33 B T.

A pine, 6 ins. diam., bears $N.57^{\circ}30'W.$, 1.55 chs. dist., marked T 12 S R 24 E S 28 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, pinon and cedar.

Mountainous land and dense undergrowth on 80.00 chs.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS	
	N, $89^{\circ}56' E.$, on a random line bet. secs. 27 and 34.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 26-27-34 and 35. Thence I run S. $89^{\circ}58' W.$, on a true line bet. secs. 27 and 34. Ascend over rocky land through scattering cedar and pinon timber.
1.00	Top of spur projects N. Descend.
8.00	Bottom of ravine, 100 ft. deep, course N. Ascend.
19.50	Top of spur projects NW. Begin abrupt descent.
27.00	Bottom of ravine, 200 ft. deep, course NW. Ascend.
33.50	Top of spur projects NW. Descend.
40.01	Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
41.50	Bottom of hollow, 100 ft. deep, course NW. Ascend.
59.50	Top of spur projects NW. Begin abrupt descent.
69.00	Bottom of hollow, 250 ft. deep, course N. Ascend.
75.00	Top of spur projects NE. Descend.
80.02	The cor. of secs. 27-28-33 and 34. Land, mountainous. Soil: rocky, 3rd rate. Timber scattering cedar and pinon pine.

SUBDIVISIONS OF T.12 S., R.24 E.

CLIMBS

- Mountainous land on 80.02 chs.
 N. 0°02' W., bet. secs. 27 and 28.
- Descend over rocky land through scattering cedar and pinon timber.
- 10.00 Bottom of hollow, 75 ft. deep, course E.
- Ascend.
- 19.00 Top of spur projects E.
- Descend.
- 32.00 Bottom of ravine, 100 ft. deep, course E.
- Ascend.
- 36.00 Top of spur projects E.
- Descend.
- 40.00 Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
- 42.00 Bottom of ravine, 100 ft. deep, course E.
- Ascend.
- 46.00 Top of spur projects E.
- Descend.
- 52.00 Bottom of hollow, 50 ft. deep, course E.
- Ascend.
- 60.00 Top of spur projects E.
- Descend.
- 67.00 Bottom of hollow, 75 ft. deep, course E.
- Ascend.
- 70.50 Top of spur projects E.
- Descend.
- 74.00 Bottom of ravine, 50 ft. deep, course E.
- Ascend.
- 79.00 Top of spur projects E.
- Descend.
- 80.00 Set a sandstone, 18x10x5 ins., 12 ins. in the ground, for

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

cor. of secs. 21-22-27 and 28, marked with 2 notches on the S. and 3 notches on the E. edge; from which

A pinon, 6 ins. diam., bears N. $13^{\circ}30' E.$, 70 lks. dist., marked T 12 S R 24 E S 22 B T.

A cedar, 10 ins. diam., bears S. $84^{\circ}E.$, 58 lks. dist., marked T 12 S R 24 E S 27 B T.

A cedar, 5 ins. diam., bears S. $16^{\circ}30' W.$, 45 lks. dist., marked T 12 S R 24 E S 28 B T.

A cedar, 10 ins. diam., bears N. $75^{\circ}30' W.$, 27 lks. dist., marked T 12 S R 24 E S 21 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

N. $89^{\circ}58' E.$ on a random line bet. secs. 22 and 27.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.90 Intersect N. and S. line, 7 lks. N. of the cor. of secs. 22-23-26 and 27.

Thence I run

N. $89^{\circ}59' W.$, on a true line

bet. secs. 22 and 27.

Descend over broken land through scattering cedar and pinon timber.

6.50 Bottom of hollow, 200 ft. deep, course NE.

Begin abrupt ascent.

12.00 Top of ridge bears N. and S.

Descend.

39.95 Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

A cedar, 8 ins. diam., bears N. $20^{\circ}E.$, 42 lks. dist., marked $\frac{1}{4}$ S 22 B T.

A cedar, 6 ins. diam., bears S. $70^{\circ}E.$, 39 lks. dist., marked $\frac{1}{4}$ S 27 B T.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- 46.00 Bottom of hollow, 200 ft. deep, course NW.
Begin abrupt ascent.
- 53.00 Top of spur projects NW.
Begin abrupt descent..
- 60.50 Bottom of hollow, 250 ft. deep, course N.
Ascend.
- 79.90 The cor. of secs. 21-22-27 and 28.
Land, mountainous.
Soil, rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 79.90 chs.
Sept. 14: At this cor., I set off $3^{\circ}23'N.$ on the decl. arc; and at 11h 56m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is $39^{\circ}45'N.$

N. $0^{\circ}02'W.$, bet. secs. 21 and 22.

- Descend over mountainous land through heavy cedar and pinon timber.
- 31.00 Bottom of hollow, 300 ft. deep, course NW.
Begin abrupt ascent.
- 35.00 Top of spur projects W.
Descend.
- 40.00 Set a sandstone, 24x10x4 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
A cedar, 12 ins. diam., bears $S.81^{\circ}E.$, 7 lks. dist.,
marked $\frac{1}{4}$ S 22 B T.
A cedar, 14 ins. diam., bears $N.79^{\circ}W.$, 9 lks. dist.,
marked $\frac{1}{4}$ S 21 B T.
- 43.00 Bottom of hollow, 75 ft. deep, course W.
Ascend.
- 47.00 Top of spur projects NW..
Descend.
- 60.50 Bottom of hollow, 100 ft. deep, course SW.
Ascend.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS	
78.50	Top of spur projects W. Descend.
80.00	Set a limestone, 20x8x5 ins., 15 ins. in the ground, for cor. of secs. 15-16-21 and 22, marked with 3 notches on the S. and E. edges; from which A pinon, 12 ins. diam., bears N. 9° 30' E., 52 lks. dist., marked T 12 S R 24 E S 15 B T. A pinon, 7 ins. diam., bears S. 63° E., 39 lks. dist., marked T 12 S R 24 E S 22 B T. A cedar, 10 ins. diam., bears S. 50° W., 59 lks. dist., marked T 12 S R 24 E S 21 B T. A pinon, 5 ins. diam., bears N. 62° W., 41 lks. dist., marked T 12 S R 24 E S 16 B T.
	Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land and heavily timbered on 80.00 chs.
	S. 89° 59' E. on a random line bet. secs. 15 and 22.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
79.80	Intersect N. and S. line, 3 lks. S. of the cor. of secs. 14-15-22 and 23. Thence I run. West on a true line bet. secs. 15 and 22. Descend over rocky land through scattering cedar and pinon timber.
1.50	Bottom of hollow, 200 ft. deep, course N. Begin abrupt ascent.
8.00	Top of ridge bears NE. and SW. Descend.
34.00	Bottom of hollow, 100 ft. deep, course SW. Ascend.
39.90	Set a sandstone, 24x8x6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS

2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Pits. impracticable.
 47.00 Top of spur projects SW.
 Descend.
 51.00 Bottom of hollow, 50 ft. deep, course SW.
 Ascend.
 61.50 Top of spur projects S.
 Descend. Enter heavy cedars and pinons, bearing N. and S.
 67.50 Bottom of hollow, 50 ft. deep, course S.
 Ascend.
 75.50 Top of spur projects S.
 Descend.
 79.80 The cor. of secs. 15-16-21 and 22.
 Land, mountainous.
 Soil; rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous or heavily timbered land on 79.80 chs.

N. $0^{\circ}02'W.$, bet. secs. 15 and 16.

Over rocky land through scattering cedar and pinon timber,
 descend.
 3.00 Bottom of hollow, 75 ft. deep, course W.
 Ascend.
 7.00 Top of spur projects SW.
 Descend.
 13.00 Bottom of hollow, 100 ft. deep, course W.
 Ascend.
 17.00 Top of spur projects W.
 Descend.
 22.25 Bottom of hollow, 100 ft. deep, course NW.
 Ascend.
 38.00 Top of ridge bears NW. and SE.
 Descend.
 40.00 Set a sandstone, 20x12x5 ins.; 15 ins. in the ground, for

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which
 A cedar, 7 ins. diam., bears N. 10° E., 45 lks. dist.,
 marked $\frac{1}{4}$ S 15 B T.
- A cedar, 8 ins. diam., bears S. 85° W., 33 lks. dist.,
 marked $\frac{1}{4}$ S 16 B T.
- 51.00 Bottom of hollow, 100 ft. deep, course NW.
 Ascend.
- 60.00 Top of spur projects W.
 Descend.
- 79.00 Bottom of hollow, 100 ft. deep, course NW.
 Ascend.
- 80.00 Set a sandstone, 20x8x8 ins., 15 ins. in the ground, for
 cor. of secs. 9-10-15 and 16, marked with 4 notches on the
 S. and 3 notches on the E. edge; from which
 A cedar, 6 ins. diam., bears N. 36° E., 1.52 chs. dist.,
 marked T 12 S R 24 E S 10 B T.
 A cedar, 10 ins. diam., bears S. 11° E., 1.62 chs. dist.,
 marked T 12 S R 24 E S 15 B T.
 A cedar, 6 ins. diam., bears N. 18° W., 93 lks. dist.,
 marked T 12 S R 24 E S 9 B T.
 No other trees within limits; and raise a mound of
 stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 Land, mountainous.
 Soil: rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 80.00 chs.
-
- E. on a random line bet. secs. 10 and 15.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 79.92 Intersect N. and S. line, 9 lks. S. of the cor. of secs.
 10-11-14 and 15.
 Thence I run
 S. $89^{\circ}56'$ W., on a true line

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- Bet. secs. 10 and 15.
- Descend over rocky land through scattering cedar and pinon timber.
- 6.00 Bottom of hollow, 100 ft. deep, course N.
Ascend.
- 15.00 Top of spur projects N.
Descend.
- 25.50 Bottom of hollow, 100 ft. deep, course NE.
Ascend.
- 30.00 Top of spur projects N.
Descend.
- 35.00 Bottom of hollow, 100 ft. deep, course N.
Ascend.
- 59.96 Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
A cedar, 12 ins. diam., bears N. 85 lks. dist.,
marked $\frac{1}{4}$ S 10 B T.
A cedar, 10 ins. diam., bears S. 30° E., 24 lks. dist.
marked $\frac{1}{4}$ S 15 B T.
- 42.00 Top of ridge bears N. and S.
Descend.
- 46.50 Bottom of ravine, 75 ft. deep, course N.
Ascend.
- 49.00 Top of spur projects N.
Descend.
- 53.00 Bottom of ravine, 100 ft. deep, course NE.
Ascend.
- 64.00 Top of ridge bears N. and S.
Descend.
- 79.92 The cor. of secs. 9, 10, 15, and 16
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 79.92 chs Sept. 14, 1904.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- Sept. 15: At 8 a.m., l.m.t., I set off $39^{\circ}47'N.$ on the lat. arc; $3^{\circ}4'W.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9-10-15 and 16.
 Thence I run
 $N.0^{\circ}02'W.$, bet. secs. 9 and 10.
 Ascend over rocky land through scattering cedar and pinon timber.
- 4.50 Top of spur projects W.
 Descend.
- 20.25 Bottom of hollow, 100 ft. deep, course NW.
 Ascend.
- 31.50 Top of spur projects W.
 Descend.
- 38.00 Bottom of hollow, 100 ft. deep, course W.
 Ascend.
- 40.00 Set a sandstone, 15x9x5 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A cedar, 8 ins. diam., bears $N.22^{\circ}E.$, 57 lks. dist., marked $\frac{1}{4}$ S 10 B T.
 A pinon, 6 ins. diam., bears $N.26^{\circ}30'W.$, 48 lks. dist., marked $\frac{1}{4}$ S 9 B T.
- 51.00 Top of ridge bears NW. and SE.
 Descend.
- 60.00 Leave timber.
- 80.00 Set a sandstone, 20x10x6 ins., 15 ins. in the ground, for cor. of secs. 3-4-9 and 10, marked with 5 notches on the S. and 3 notches on the E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 Land, mountainous.
 Soil: rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.12 S.; R.24 E.

CHAINS

	N. $89^{\circ}56'$ E. on a random line bet. secs. 3 and 10.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.10	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 2-3-10 and 11.2 chs. Thence I run
	S. $89^{\circ}58'$ W., on a true line, bet. secs. 3 and 10.
	Descend over rocky land 100 ft. deep, course N.
13.00	Bottom of hollow, 150 ft. deep, course N.
	Ascend.
27.50	Top of spur projects N.
	Descend.
38.00	Bottom of hollow, 100 ft. deep, course NE.
	Begin abrupt ascent over loose slide rock.
40.05	Point for $\frac{1}{4}$ sec.cor., falls on loose slide rock and cannot be set.
44.90	Top of spur projects NE.
	Set a sandstone, 16x8x6 ins., 11 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec.cor., marked W C $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
	Descend.
52.00	Bottom of ravine, 100 ft. deep, course NE.
	Ascend.
69.00	Top of spur projects N.
	Descend.
80.10	The cor. of secs. 3-4-9 and 10.
	Land, mountainous.
	Soil: rocky, 3rd rate.
	Timber, none.
	Mountainous land on 80.10 chs.

	N. $0^{\circ}02'$ W., on a random line bet. secs. 3 and 4.
40.00	Set temp. $\frac{1}{4}$ sec.cor.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- 79.98 Intersect N.bdy.of. the Tp., 3 lks.W.of the cor.of secs. 3-4-33 and 34, heretofore described.
Thence I run
S. $0^{\circ}01' E.$, on a true line bet.secs.3 and 4.
Ascend through scattering cedar and pinon timber.
- 17.00 Gilsonite vein, 30 ins.wide, on Nigger Baby Lode, bears NW.and SE.
- 37.00 Top of ridge bears NE.and SW.
Descend. Leave timber.
- 39.98 Set a sandstone, 24x10x8 ins., 18 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face;and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high,W.of cor.
Pits impracticable.
- 42.00 Bottom of hollow, 100 ft.deep, course NE.
Ascend.
- 46.50 Top of spur projects NE.
Descend.
- 62.00 Bottom of hollow, 100 ft.deep, course NE.
Ascend.
- 79.98 The cor.of secs.3-4-9 and 10.
Land, mountainous.
Soil:rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 79.98 chs.
Spet.15:At this cor., I set.off $03^{\circ}00' N.$ on the decl. arc;and, at 11h 55m a.m., 1.m.t., observe the sun on the meridian;the resulting lat.is $39^{\circ}49' N.$

From the corner of secs.4,5,32, and 33 on the S.bdy.of the township, heretofore described I run

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

N.0°03'W., bet. secs. 32 and 33.

Descend through heavy cedar and pinon timber.

4.00 Leave heavy timber, bearing NW. and SE.

40.00 Set a sandstone, 24x8x3 ins., 18 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of
 stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

44.00 Enter scattering cedar and pinon timber.

62.00 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

Leave timber.

74.00 Top of spur projects E.

Descend.

80.00 Set a limestone, 24x15x3 ins., 18 ins. in the ground, for
 cor. of secs. 28-29-32 and 33, marked with 1 notch on the
 S. and 4 notches on the E. edge; from whichA cedar, 8. ins. diam., bears S.88°W., 1.64 chs. dist.,
 marked T 12 S R 24 E S 32 B T.A cedar, 7 ins. diam., bears N.86°W., 1.78 chs. dist.,
 marked T 12 S R 24 E S 29 B T. No other trees within
 limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable. Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous or heavily timbered land on 80.00 chs.

N.89°56'E., on a random line bet. secs. 28 and 33.

40.00 Set temp. $\frac{1}{4}$ sec. cor.79.98 Intersect N. and S. line, 12 lks. S. of the cor. of secs.
 27-28-33 and 34.

Thence I run

S.89°51'W., on a true line
 bet. secs. 28 and 33.Ascend over rocky land through scattering cedar and
 pinon timber.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS	
15.00	Top of ridge bears N. and S. Descend.
36.00	Leave timber.
39.99	Set a sandstone, 30x13x3 ins., 22 ins. in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
73.00	Bottom of center fork of Asphalt Wash, 150 ft. deep, course N. Ascend.
79.98	The cor. of secs. 28-29-32 and 33. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 79.98 chs.
	N. $0^{\circ}03'W.$, bet. secs. 28 and 29.
	Descend over mountainous land through dense artemisia.
14.00	Bottom of hollow, 150 ft. deep, course E. Begin abrupt ascent. Enter scattering cedar and pinon timber.
27.00	Top of spur projects NE. Descend.
40.00	Set a sandstone, 18x10x8 ins., 12 ins. in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which A pinon 5 ins. diam., bears S. $66^{\circ}30' E.$, 13 lks. dist., marked $\frac{1}{4}$ S 28 B T. A cedar, 9 ins. diam., bears S. $87^{\circ}W.$, 20. lks. dist., marked $\frac{1}{2}$ S 29 B T.
50.00	Bottom of hollow, 100 ft. deep, course NE. Ascend.
59.00	Top of spur projects NE. Descend.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- 63.50 Bottom of hollow, 100 ft. deep, course E.
Ascend. Leave dense undergrowth.
- 66.00 Top of spur projects NE.
Descend.
- 77.00 Bottom of hollow, 50 ft. deep, course NE.
Ascend.
- 80.00 Set a sandstone, 20x10x5 ins., 15 ins. in the ground, for cor. of secs. 20-21-28 and 29, marked with 2 notches on the S. and 4 notches on the E. edge; from which
A cedar, 15 ins. diam., bears N.52°30'E., 2.29 chs. dist.,
marked T 12 S R 24 E S 21 B T.
A cedar, 5 ins. diam., bears S.76°E., 71 lks. dist.,
marked T 12 S R 24 E S 28 B T.
A cedar, 8 ins. diam., bears S.33°30'W., 90 lks. dist.,
marked T 12 S R 24 E S 29 B T.
A cedar, 10 ins. diam., bears N.63°30'W., 58 lks. dist.,
marked T 12 S R 24 E S 20 B T.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land or dense undergrowth on 80.00 chs.

Sept. 15, 1904.

- Sept. 16: At 8h a.m., l.m.t., I set off 39°45'N. on the lat. arc; 2°41'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 20-21-28 and 29. Thence I run N.89°51'E. on a random line bet. secs. 21 and 28.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.12 Intersect N. and S. line, 12 lks. N. of the cor. of secs. 21-22-27 and 28.
Thence I run S.89°56'W., on a true line bet. secs. 21 and 28.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS

	Ascend over rocky land.
37.00	Top of ridge bears N. and S.
40.06	Set a sandstone, 18x12x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
64.00	Bottom of Center Fork of Asphalt Wash, 200 ft. deep, course N.
	Ascend.
70.00	Top of spur projects NE.
	Descend.
74.00	Bottom of hollow, 50 ft. deep, course NE.
	Ascend. Enter scattering cedar and pinon timber.
80.12	The cor. of secs. 20-21-28 and 29.
	Land, mountainous.
	Soil: rocky, 3rd rate. Timber, cedar and pinon.
	Mountainous land on 80.12 chs.
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	N. $0^{\circ}03'$ W., bet. secs. 20 and 21.
	Over rocky land ascend through scattering cedar and pinon timber.
14.00	Top of spur projects NE.
	Begin abrupt descent.
40.00	Set a sandstone, 24x8x3 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
	A cedar, 6 ins. diam., bears S. 85° E., 37 lks. dist., marked $\frac{1}{4}$ S 21 B T.
	A cedar, 8 ins. diam., bears S. 40° W., 62 lks. dist., marked $\frac{1}{4}$ S 20 B T.
42.60	Bottom of hollow, 150 ft. deep, course NE.
	Ascend.
51.00	Top of ridge bears NE. and SW.
	Begin abrupt descent.
80.00	Set a limestone, 20x6x5 ins., 15 ins. in the ground, for

. SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS

cor. of secs. 16-17-20 and 21, marked with 3 notches on the S. and 4 notches on the E. edge; from which

A cedar, 15 ins. diam., bears N. 60° E., 1.53 chs. dist., marked T 12 S R 24 E S 16 B T.

A cedar, 14 ins. diam., bears S. 73° E., 71 lks. dist., marked T 12 S R 24 E S 21 B T.

A cedar, 5 ins. diam., bears S. 58° W., 99 lks. dist., marked T 12 S R 24 E S 20 B T.

A cedar, 5 ins. diam., bears N. 71° 30' W., 44 lks. dist., marked T 12 S R 24 E S 17 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

N. 89° 56' E. on a random line bet. secs. 16 and 21.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

80.08 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 16-17-21 and 22.

Thence I run

S. 89° 58' W., on a true line
bet. secs. 16 and 21.

Over rocky land descend abruptly through scattering cedar and pinon timber.

22.00 Bottom of hollow, 300 ft. deep, course NW.

Begin abrupt ascent.

31.00 Top of spur projects N.

Descend.

40.04 Set a sandstone, 24x9x3 ins., 18 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on N. face; from which

A pinon, 4 ins. diam., bears N. 85° E., 1.09 chs. dist., marked $\frac{1}{2}$ S 16 B T.

A pinon, 14 ins. diam., bears S. 80° W., 7 lks. dist., marked $\frac{1}{2}$ S 21 B T.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS	
45.00	Bottom of Center Fork of Asphalt. Wash, 300 ft. deep, course N. Begin abrupt ascent.
56.00	Top of spur projects NE. Descend.
60.50	Bottom of hollow, 150 ft. deep, course NE. Ascend.
65.00	Top of spur projects NE. Descend..
80.08	The cor. of secs. 16-17-20 and 21. Land, mountainous. Soil; rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 80.08 chs.
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	N. $0^{\circ}03'W.$, bet. secs. 16 and 17.
	Descend over rocky land through scattering cedar and pinon timber.
2.00	Bottom of hollow, 150 ft. deep, course NE. Begin abrupt ascent.
10.70	Top of spur projects E. Descend.
20.00	Head of hollow, course SE. Ascend.
24.50	Top of ridge bears NE. and SW. Leave timber. Descend.
40.00	Set a sandstone, 24x12x3 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.)
44.00	Enter scattering cedar and pinon timber.
58.00	Bottom of hollow, 150 ft. deep, course NE. Leave timber.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS	
	Descend.
65.00	Top of spur projects NE.
	Begin abrupt descent.
71.00	Bottom of hollow, 150 ft. deep, course NE.
	Begin abrupt ascent.
78.00	Top of spur projects NE.
	Descend.
80.00	Set a limestone, 20x12x3 ins., 15 ins. in the ground, for cor. of secs. 8-9-16 and 17, marked with 4 notches on the S. and E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil: rocky, 3rd rate,
	Timber, cedar and pinon.
	Mountainous land on 80.00 chs.

	N. $89^{\circ}58'$ E. on a random line bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 9-10-15 and 16.
	Thence I run
	N. $89^{\circ}58'$ W., on a true line bet. secs. 9 and 16.
	Descend over rocky land through scattering cedar and pinon timber.
3.75	Bottom of hollow, 150 ft. deep, course NW.
	Ascend.
22.00	Top of spur projects N.
	Descend.
26.50	Bottom of hollow, 100 ft. deep, course N.
	Ascend.
32.50	Top of spur projects N.
	Begin abrupt descent.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS

- 40.05 Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
 A pinon, 12 ins. diam., bears N. 77° W., 83 $\frac{1}{2}$ lks. dist.,
 marked $\frac{1}{4}$ S 9 B T.
 A pinon, 14 ins. diam., bears S. 53° W., 1.45 chs. dist.,
 marked $\frac{1}{4}$ S 16 B T.
- 56.00 Bottom of Center Fork of Asphalt Wash, 400 ft. deep, course N.
 Begin abrupt ascent.
- 62.50 Top of spur projects NE.
 Descend.
 Leave timber.
- 69.00 Bottom of hollow, 150 ft. deep, course NE.
 Begin abrupt ascent.
- 75.75 Top of spur projects NE.
 Descend.
- 80.10 The cor. of secs. 8-9-16 and 17.
 Land, mountainous.
 Soil; rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 80.10 chs.
 Sept. 16: At this cor., I set off $2^{\circ}36'$ N. on the decl. arc;
 and at 11h 55m a.m., l.m.t., observe the sun on the merid-
 ian; the resulting lat. is $39^{\circ}47'N.$
-
- N. $0^{\circ}03'W.$, bet. secs. 8 and 9.
 Ascend abruptly over rocky land.
- 4.00 Bottom of hollow, 200 ft. deep, course NE.
 Begin abrupt ascent.
- 15.00 Top of spur projects NE.
 Begin abrupt descent.
- 23.25 Bottom of hollow, 150 ft. deep, course NE.
 Begin abrupt ascent.
- 29.80 Top of spur projects NE.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS

- Begin abrupt descent.
- 38.00 Enter scattering cedar and pinon timber.
- 40.00 Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
A cedar, 10 ins. diam., bears S. 34° E., 85 lks. dist.,
marked $\frac{1}{4}$ S 9 B T.
A cedar, 12 ins. diam., bears N. 61° W., 1.02 chs. dist.,
marked $\frac{1}{4}$ S 8 B T.
- 46.50 Bottom of hollow, 200 ft. deep, course E.
Begin abrupt ascent.
Leave timber.
- 52.00 Top of spur projects NE.
Descend.
- 74.00 Bottom of hollow, 200 ft. deep, course E.
Begin abrupt ascent.
- 80.00 Set a sandstone, 24x12x6 ins., 18 ins. in the ground, for cor. of secs. 4-5-8 and 9, marked with 5 notches on the S. and 4 notches on the E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.00 chs.
-
- S. $89^{\circ}58'$ E. on a random line bet. secs. 4. and 9.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.08 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 3-4-9 and 10.
Thence I run
N. $89^{\circ}57'$ W., on a true line
bet. secs. 4 and 9.
- 3.00 Descend over rocky land.
Bottom of hollow, 100 ft. deep, course N.E.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS	
	Ascend.
8.50	Top of ridge bears N. and S.
	Descend.
12.00	Bottom of hollow, 100 ft. deep, course N.
	Ascend.
18.00	Top of spur projects NW.
	Descend..
25.25	Bottom of hollow, 150 ft. deep, course NW.
	Begin abrupt ascent.
33.00	Top of spur projects NW.
	Descend.abruptly.
40.04	Set a sandstone, 20x10x6 ins., 15 ins. in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
64.00	Bottom of Center Fork of Asphalt Wash, 400 ft. deep, course N. Begin abrupt ascent.
75.10	Top of rocky spur projects S. Descend.
78.00	Head of hollow, course S. Ascend.
80.08	The cor.of secs. 4-5-8 and 9. Land, mountainous. Soil: rocky, 3rd rate. No timber. Mountainous land on 80.08 chs.
	N. $0^{\circ}03'W.$, on a random line bet.secs. 4 and 5.
40.00	Set temp. $\frac{1}{4}$ sec.cor.)
79.97	Intersect N.bdy.of the Tp., 5 lks.E. of the cor.of secs. 4-5-32 and 33, heretofore described. Thence I run

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- S.0°05'E., on a true line
bet. secs. 4 and 5.
- Ascend along top of spur over rocky land.
- 11.00 Junction of spur projecting N., with ridge bearing E. and W.
Begin abrupt descent.
- 21.00 Bottom of hollow, 200 ft. deep, course E.
Begin abrupt ascent.
- 39.97 Set a sandstone, 28x12x4 ins., 21 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
This $\frac{1}{4}$ sec. cor. falls on top of spur projecting NE.
Begin abrupt descent.
- 50.50 Bottom of hollow, 250 ft. deep, course E.
Begin abrupt ascent.
- 55.00 Top of spur projects E.
Begin abrupt descent.
- 63.00 Bottom of hollow, 200 ft. deep, course NE.
Begin abrupt ascent.
- 77.50 Top of ridge bears NE. and SW.
Begin abrupt descent.
- 79.97 The cor. of secs. 4-5-8 and 9.
Land, mountainous.
Soil: rocky, 3rd rate.
No timber.
Mountainous land on 79.97 chs.

Sept. 16, 1904.

Sept. 17: At 8h a.m., l.m.t., I set off $39^{\circ}43'N.$ on the lat. arc; $2^{\circ}18'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5-6-31 and 32, here-tofore described on the S. bdy. of the Tp.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

Thence I run

N. $0^{\circ}03'W.$, bet. secs. 31 and 32.

Over rocky land ascend.

6.00 Enter scattering cedar and pinon timber.

20.00 Top of ridge bears NE. and SW.

Descend.

40.00 Set a sandstone, 20x6x5 ins., 15 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which

A pinon, 14 ins. diam., bears N. $78^{\circ}E.$, 1.75 chs. dist.,
 marked $\frac{1}{4}$ S 32 B T.

A cedar, 6. ins. diam., bears S., $79^{\circ}W.$, 2.50 chs. dist.,
 marked $\frac{1}{4}$ S 31 B T.

This cor. falls in bottom of hollow, 75 ft. deep, course
 SW.

Ascend.

58.00 Top of ridge bears E. and W.

Descend.

80.00 Set a sandstone, 24x10x5 ins., 18 ins. in the ground, for
 cor. of secs. 29-30-31 and 32, marked with 1 notch on the
 S. and 5 notches on the E. edge; from which

A cedar, 8 ins. diam., bears N. $68^{\circ}E.$, 1.32 chs. dist.,
 marked T 12 S R 24 E S 29 B T.

A pinon, 7 ins. diam., bears S. $14^{\circ}E.$, 1.00 chs. dist.,
 marked T 12 S R 24 E S 32 B T.

A pinon, 10 ins. diam., bears S. $41^{\circ}W.$, 1.06 chs. dist.,
 marked T 12 S R 24 E S 31 B T.

A cedar, 10 ins. diam., bears N. $9^{\circ}30'W.$, 1.70 chs. dist.,
 marked T 12 S R 24 E S 30 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS

N. $89^{\circ}56' E.$ on a random line bet. secs. 29 and 32.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.94 Intersect N. and S. line, 7 lks. N. of the cor. of secs. 28-29-32 and 33.

Thence I run

S. $89^{\circ}59' W.$, on a true line

bet. secs. 29 and 32.

Ascend through dense artemisia.

1.50 Enter scattering cedar and pinon timber.

9.00 Top of spur projects N.

Descend.

15.50 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

36.00 Top of spur projects N.

Descend.

39.97 In bottom of hollow, 100 ft. deep, course NE., set a sandstone, 20x12x5 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

A cedar, 6 ins. diam., bears N. $77^{\circ} W.$, 72 lks. dist., marked $\frac{1}{4}$ S 29 B T.

A cedar, 8 ins. diam., bears S. $81^{\circ}30' W.$, 58 lks. dist., marked $\frac{1}{4}$ S 32 B T.

Ascend.

63.00 Top of ridge bears N. and S.

Descend.

79.94 The cor. of secs. 29-30-31 and 32.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 79.94 chs.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- S.89°56'W., on a random line bet. secs.30 and 31.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 78.25 Intersect W.bdy.of the Tp., 16 lks.S. of the cor.of secs. 25-30-31 and 36, heretofore described.
- Thence I run
- S.89°57'E., on a true line
betsecs.30 and 31.
- Ascend over rocky land through heavy cedar and pinon timber.
- 11.00 Top of spur projects N.
- Descend.
- 23.50 Bottom of hollow, 100 ft. deep, course N.
- Ascend.
- 38.25 Set a sandstone, 20x8x4 ins., 15 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which
- A pinon, 18 ins.diam., bears N.48°E., 48 lks.dist.,
marked $\frac{1}{4}$ S 30 B T.
- A cedar, 20 ins.diam., bears S.61°E., 29 lks.dist.,
marked $\frac{1}{4}$ S 31 B T.
- 78.25 The cor.of secs.29-30-31 and 32.
- Land, mountainous.
- Soil; rocky, 3rd rate.
- Timber, cedar and pinon.
- Mountainous and heavily timbered land on 78.25 chs.
-
- N.0°03'W., bet. secs.29 and 30.
- Over rocky land descend through dense artemisia, and scattering cedar and pinon timber.
- 40.00 Set a sandstone, 20x10x5 ins., 15 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which
- A pinon, 12 ins.diam., bears S.44°E., 69 lks.dist.,
marked $\frac{1}{4}$ S 29 B T.
- A cedar, 7 ins.diam., bears S.47°W., 78 lks.dist.,
marked $\frac{1}{4}$ S 30 B T.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- 80.00 Set a sandstone, 20x8x5 ins., 15 ins. in the ground, for cor. of secs. 19-20-29, and 30, marked with 2 notches on the S. and 5 notches on the E. edge; from which
 A cedar, 10 ins. diam., bears S. 66° W., 1.15 chs. dist., marked T 12 S R 24 E S 30 B T.
 A cedar 12 ins. diam. bears N. 63° W., 1.55 chs. dist. marked T 12 S R 24 E S 19 B T.
 No other trees within limits; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 Land, mountainous.
 Soil, rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 80.00 chs.
 Sept. 17: At this cor., I set off $2^{\circ}15'$ N. on the decl. arc; and at 11h 55m a.m., 1.m.t., observe the sun on the meridian; the resulting lat. is $39^{\circ}45'N.$
 N. $39^{\circ}59'E.$ on a random line bet. secs. 20 and 29.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.96 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 20-21-28 and 29.
 Thence I run
 S. $89^{\circ}57'W.$, on a true line
 bet. secs. 20 and 29.
 Ascend over rocky land through heavy cedar and pinon timber.
 13.50 Top of ridge bears NE. and SW.
 Descend.
 20.00 Bottom of hollow, 50 ft. deep, course N.
 Ascend.
 26.00 Top of spur projects N.
 Descend.
 39.00 Bottom of hollow, 75 ft. deep, course N.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS	
	Ascend.
39.98	Set a sandstone, 20x10x4 ins., 15 ins. in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ on N. face; from which A cedar, 8 ins. diam. bears N. 15° E., 15 lks.dist., marked $\frac{1}{4}$ S 20 B T. A cedar, 7 ins. diam., bears S. 15° W., 9 lks.dist., marked $\frac{1}{4}$ S 29 B T.
43.00	Top of spur projects N. Descend.
53.00	Bottom of hollow, 100 ft. deep, course NE. Ascend.
59.00	Top of spur projects S. Descend.
64.00	Bottom of hollow, 75 ft. deep, course SE. Ascend.
68.50	Top of ridge bears N. and S. Descend.
72.00	Leave timber.
79.96	The cor.of secs. 19-20-29 and 30. Land, mountainous. Soil; rocky, 3rd rate. Timber cedar and pinon pine. Mountainous and heavily timbered land on 79.96 chs.
	N. $89^{\circ}57'$ W., on a random line bet.secs. 19 and 30.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
78.12	Intersect W.bdy.of the Tp., 3 lks.N. of the cor.of secs. 19-24-25 and 30, heretofore described. Thence I run
	S. $89^{\circ}58'$ E., on a true line bet.secs. 19 and 30.
	Over rolling land descend through heavy cedar and pinon timber.
30.25	Bottom of hollow, 150 ft. deep, course N. Ascend.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS

- Leave heavy and enter scattering cedar and pinon timber.
- 38.12 Set a sandstone, 20x8x8 ins., 15 ins. in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which
 A cedar, 12 ins. diam., bears N. 54° E., 23 lks.dist.,
 marked $\frac{1}{4}$ S 19 B.T.
 A cedar, 6 ins. diam., bears S. 24° W., 27 lks.dist.,
 marked $\frac{1}{4}$ S 30 B.T.
- 77.00 Leave timber.
- 78.12 The cor.of secs.19-20-29 and 30.
 Land, mountainous.
 Soil:rocky, 3rd rate.
 Timber pinon pine and cedar.
 Mountainous or heavily timbered land on 78.12 chs.
-
- N. $0^{\circ}03'W.$, bet. secs.19 and 20.
 Descend through dense artemisia.
- 4.00 Head of hollow, course NW.
 Ascend. Enter scattering cedar and pinon timber.
- 10.00 Top of spur projects NW.
 Descend.
- 40.00 Set a sandstone, 20x10x4 ins., 15 ins. in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which
 A pinon, 15 ins. diam., bears N. 22° E., 51 lks.dist.,
 marked $\frac{1}{4}$ S 20 B.T.
 A cedar, 7 ins. diam., bears N. 88° W., 2.28 chs.dist.,
 marked $\frac{1}{4}$ S 19 B.T.
- 59.00 Bottom of hollow, 100 ft.deep, course W.
 Ascend.
- 68.75 Top of spur projects NW.
 Descend.
- 78.00 Head of hollow, course W.
 Ascend.
- 80.00 On top of ridge, bearing N. and SE.
 Set a sandstone, 24x10x4 ins., 18 ins. in the ground, for

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

	cor. of secs. 17-18-19 and 20, marked with 3 notches on the S. and 5 notches on the E. edge; from which A cedar, 7 ins. diam., bears N. 75° E., 96 lks. dist., marked T 12 S R 24 E S 17 B T. A cedar, 12 ins. diam., bears S. 53° E., 34 lks. dist., marked T 12 S R 24 E S 20 B T. A cedar, 8 ins. diam., bears S. 31° W., 53 lks. dist., marked T 12 S R 24 E S 19 B T. A cedar, 5 ins. diam., bears N. 69° W., 1.12 chs. dist., marked T 12 S R 24 E S 18 B T. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land, or dense undergrowth on 80.00 chs. N. $89^{\circ}57'W.$ on a random line bet. secs. 17 and 20.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. and S. line, 12 lks. S. of the cor. of secs. 16-17-20 and 21. Thence I run S. $89^{\circ}52'W.$, on a true line bet. secs. 17 and 20. Descend over rocky land.
1.75	Bottom of hollow, 150 ft. deep, course NE. Ascend.
14.00	Top of ridge bears NE. and SW. Descend.
38.00	Bottom of hollow, 100 ft. deep, course N. Ascend.
40.04	Set a sand-tone, 26x10x3 ins., 19 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
47.00	Enter scattering cedar and pinon timber..
55.40	Top of spur projects N. Descend.
70.00	Bottom of hollow; 100 ft. deep, course N. Ascend.

SUBDIVISIONS OF T. 12 S., R. 24 E.

CHAINS

80.08 The cor. of secs. 17-18-19 and 20.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.08 chs.

Sept. 17, 1904.

Sept. 18: At 8h a.m., l.m.t., I set off $39^{\circ}46'N.$ on the lat. arc; $1^{\circ}55'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 17-18-19 and 20.

Thence I run

$N.89^{\circ}58'W.$ on a random line bet. secs. 18 and 19.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

78.00 Intersect w. bdy. of the Tp., 7 lks. N. of the cor. of secs. 13-18-19 and 24, heretofore described.

Thence I run

$N.89^{\circ}59'E.$, on a true line

bet. secs. 18 and 19.

Ascend through scattering cedar and pinon timber.

1.50 Top of spur projects N.

Descend.

11.00 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

13.00 Top of spur projects N.

Descend.

18.00 Bottom of hollow, 100 ft. deep, course N.

Ascend.

23.00 Top of spur projects N.

Descend.

35.00 Bottom of hollow, 150 ft. deep, course N.

Begin abrupt ascent.

38.00 Set a sandstone, 24x9x6 ins., 18 ins. in the ground, for

$\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

A pinon, 9 ins. diam., bears $N.27^{\circ}E.$, 1.25 chs. dist.,

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS	
	marked $\frac{1}{4}$ S 18 B T.
	A cedar, 6 ins. diam., bears S. 2° E., 2.15 chs. dist., marked $\frac{1}{4}$ S 19 B T.
78.00	The cor. of secs. 17-18-19 and 20. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 78.00 chs.
	N. 0° 05' W., bet. secs. 17 and 18. Descend along top of ridge over rocky land, through scattering cedar and pinon timber.
13.00	Leave top of ridge, bearing NE. and S.
40.00	Set a sandstone, 24x10x3 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
51.50	Bottom of hollow, 75 ft. deep, course W. Ascend.
76.00	Top of spur projects W. Descend.
80.00	Set a sandstone, 20x14x3 ins., 15 ins. in the ground, for cor. of secs. 7-8-17 and 18, marked with 4 notches on the S. and 5 notches on the E. edge; from which A pinon, 12 ins. diam., bears N. 61° E., 22 lks. dist., marked T 12 S R 24 E S 8 B T. A pinon, 10 ins. diam., bears S. 41° E., 49 lks. dist., marked T 12 S R 24 E S 17 B T. A cedar, 6 ins. diam., bears S. 83° W., 50 lks. dist., marked T 12 S R 24 E S 18 B T. A cedar, 12 ins. diam., bears N. 71° W., 47 lks. dist., marked T 12 S R 24 E S 7 B T. Land, mountainous. Soil: rocky, 3rd rate.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

N. 89°52' E. on a random line bet. secs. 8 and 17.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.94 Intersect N. and S. line, 14 lks. N. of the cor. of secs.
8-9-16 and 17.

Thence I run

S. 89°58' W., on a true line
bet. secs. 8 and 17.

Descend over rocky land.

6.50 Bottom of hollow, 150 ft. deep, course NE.

Ascend.

26.00 Top of spur projects S. Descend.

33.00 Bottom of hollow course SW.

Enter scattering cedar and pinon timber.

39.97 Set a sandstone, 20x12x3 ins., 15 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

A cedar, 8 ins. diam., bears S. 48°30' E., 79 lks. dist.,
marked $\frac{1}{4}$ S 17 B T.

A cedar, 12 ins. diam., bears N. 60°30' E., 1.11 chs. dist.,
marked $\frac{1}{4}$ S 8 B T.

76.00 Top of ridge bears N. and S.

Descend.

79.94 The cor. of secs. 7-8-17 and 18.

Land, mountainous.

Soil; rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 79.94 chs.

S. 89°59' W., on a random line bet. secs. 7 and 18.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

77.88 Intersect W. bdy. of the Tp., 5 lks. S. of the cor. of secs.
7-12-13 and 18, heretofore described.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS	
	Thence I run S.89°59' E., on a true line bet. secs. 7 and 18. Descend over rocky land through scattering cedar and pinon timber.
21.00	Bottom of hollow, 150 ft. deep, course NW. Begin abrupt ascent.
32.00	Top of spur projects SW. Descend.
37.88	In bottom of hollow, 100 ft. deep, course SW., Set a sandstone, 24x8x3 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Ascend.
69.00	Top of spur projects SW. Descend.
75.00	Bottom of hollow, 75 ft. deep, course SW. Ascend.
77.88	The cor. of secs. 7-8-17 and 18. Land, mountainous. Soil; rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 77.88 chs. Sept. 18: At this cor., I set off 1°50' N. on the decl. arc; and at 11h 54m a.m., l.m.t., observe the sun on the meri- dian; the resulting lat. is 39°47' N.
7.25	N. 0°03' W., bet. secs. 7 and 8. Descend over rocky land.
16.00	Head of hollow, course SW. Ascend. Top of ridge bears E. and W. Descend.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- 40.00 Set a sandstone, 20x11x3 ins., 15 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which
 A cedar, 4 ins. diam., bears S.82° E., 1.12 chs.dist.,
 marked $\frac{1}{2}$ S 8 B T.
 A cedar, 14 ins. diam., bears S.9° W., 2.99 chs.dist.,
 marked $\frac{1}{2}$ S 7 B T.
- 65.00 Bottom of hollow, 75 ft. deep, course W..
 Ascend.
- 74.00 Top of spur projects W..
 Descend.
- 80.00 Set a sandstone, 24x12x3 ins., 18 ins. in the ground, for
 cor.of secs.5-6-7 and 8, marked with 5 notches on the S.
 and E.edges; from which
 A cedar, 18 ins. diam., bears N.23° E., 1.50 chs.dist.,
 marked T 12 S R 24 E S 5 B T.
 A cedar, 14 ins. diam., bears S.49° E., 91 lks.dist.,
 marked T 12 S R 24 E S 8 B T.
 A cedar, 15 ins. diam., bears S.59° W., 52 lks.dist.,
 marked T 12 S R 24 E S 7 B T.
 A cedar, 5 ins. diam., bears N.25° W., 61 lks.dist.,
 marked T 12 S R 24 E S 6 B T.
 Land, mountainous.
 Soil: rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 80.00 chs.
-
- 89°58'E., on a random line bet.secs.5 and 8.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 79.80 Intersect N.and S.line, 3 lks. N. of the cor.of secs.
 4-5-8 and 9.
 Thence I run
 S.89°59'W., on a true line bet.secs.5 and 8.
- Ascend over rocky land.
- 9.00 Top of ridge bears NE. and SW.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS	
	Descend.
28.00	Bottom of hollow, 100 ft. deep, course NE..
	Ascend.
	Enter scattering cedar and pinon timber.
39.90	Set a sandstone, 18x10x3 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which A cedar, 15 ins. diam., bears N. 45° W., 78 lks.dist., marked $\frac{1}{4}$ S 5 B T. A cedar, 18 ins. diam., bears S. 56° W., 1.00 ch.dist., marked $\frac{1}{4}$ S 8 B T.
69.00	Top of ridge bears NW. and SE.
	Descend.
79.80	The cor.of secs.5-6-7 and 8. Land, mountainous. Soil, rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 79.80 chs.
	N. $89^{\circ}59'$ W., on a random line bet.secs.6 and 7,
40.00	Set temp. $\frac{1}{4}$ sec.cor.
77.80	Intersect W.bdy.of the Tp., 5 lks.N. of the cor.of secs. 1-6-7 and 12, heretofore described. Thence I run N. $89^{\circ}59'$ E. on a true line. bet.secs.6 and 7. Descend over rocky land through scattering cedar and pinon timber.
2.50	Bottom of hollow, 100 ft. deep, course N.
	Ascend.
5.00	Top of spur projects N.
	Descend.
22.50	Bottom of hollow, 100 ft. deep, course NW.
	Ascend.
37.80	Set a sandstone, 20x9x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

- A cedar, 7 ins. diam., bears N.45°W., 67 lks. dist., marked $\frac{1}{4}$ S 6 B T.
- A cedar, 5 ins. diam., bears S.41°W., 73 lks. dist., marked $\frac{1}{4}$ S 7 B T.
- 39.00 Top of spur projects S.
Descend.
- 52.00 Bottom of hollow, 100 ft. deep, course SW. Ascend.
- 77.80 The cor. of secs. 5, 6, 7, and 8.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 77.80 chs.
-
- N.0°03'W., on a random line bet. secs. 5 and 6.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.03 Intersect N. bdy. of the Tp., 3 lks. W. of the cor. of secs. 5-6-31 and 32, heretofore described.
Thence I run
S.0°02'E., on a true line
bet. secs. 5 and 6.
Ascend over rolling rocky land, through heavy cedar and pinon timber.
- 40.03 On top of ridge bears NW. and SE.
Set a sandstone, 24x12x3 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
A pinon, 8 ins. diam., bears N.45°E., 61 lks. dist., marked $\frac{1}{4}$ S 5 B T.
A cedar, 14 ins. diam., bears S.55°W., 23 lks. dist., marked $\frac{1}{4}$ S 6 B T.
- 45.50 Leave heavy timber, bearing NW. and SE.
Enter scattering cedar and pinon timber.
- 70.50 Bottom of hollow, 75 ft. deep, course W.
Ascend.
- 80.03 The cor. of secs. 5-6-7 and 8.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.03 chs.

Sept. 18, 1904.

GENERAL DESCRIPTION.

This township is mountainous throughout, and badly broken with many ridges hollows and spurs.
There is no water in this township.
This township is mostly of sandstone formation, with an occasional limestone reef.
The entire township is covered with a scattering growth of cedar and pinon timber.
The only mineral found in this township is a gilsonite vein, 30 ins. wide, called the Nigger Baby Lode, passing through sec. 4, into sec. 3.
There are no settlers in this township.
On account of the arid conditions and the sterile character of the soil; the township is unsuitable for agricultural and grazing purposes.
I return lots 1 and 2 sec. 4, and lot 4 sec. 3 as mineral land.

Harvey D. Scott

U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Harvey D. Heist
 United States Deputy Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of the Subdivi-
 sion of Tps. 9 S. R.s. 21 and 22 E.; Tps. 10 S. R.s. 22, 23, 24 and 25 E.; and Tps.
 11 and 12 South, Range 24 E. of the Salt Lake Base and Meridian, Utah;
 showing the respective capacities in which they acted:

Earl Woolley Chainman.

Heber Christensen Chainman.

Andrew Stumpf Moundman.

..... Moundman.

Edward J. Beaird Arman.

..... Arman.

John A. Neely Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D. Heist
 United States Deputy Surveyor, in surveying all
 those parts or portions of the the Subdivisional lines of Township 9 South R.S. 21
 and 22 E.; Tp. 10 S. R.s. 22, 23, 24, and 25 E.; and Tps. 11 and 12 S.R. 24 E.

..... Salt Lake
 of the Salt Lake
 base and meridian, State of Utah , which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 as been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for Utah.

Earl. Woolley Chainman.

Heber. Christensen Chainman.

Andrew Stumpf Moundman.

..... Moundman.

Edward J. Beaird Arman.

..... Arman.

John A. Neely Flagman.

Subscribed and sworn to before me this 18th

day of September, 1904., 180



J. H. Johnson

Notary Public

My commission expires Oct. 6th 1907.

5.52

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harvey D. Heist, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date 12th day of April, 1904, XX, I have well, faithfully, and truly, in proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivisional lines of South, Rs. 21 and 22 E.; Tp. 10 S., Rs. 22, 23, 24, and 25 E.; and Tp. 11 and South Range 24 E. of the Salt Lake Base and Meridian,

.....of the
meridian in the State of Utah, which are represented in books D.G.K.O.V.Z²Z⁸ and Z¹², fore-going field notes having been surveyed by me, and under my direction; and I do further swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will incur the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Harvey D. Heist
United States Deputy Surveyor

Subscribed by said Harvey D. Heist, and sworn to before me
this 25th day of November, 1904, XX

Word 000000

Edward H. Anderson
U.S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, May 27, 1904.

The foregoing field notes of the survey of the Subdivisional lines of Towns No. 12 South, Range No. 24 East of the Salt Lake Base and Meridian, Utah,

executed by Alfredo R. Talamantes and Harvey D. Heist, U.S. Deputy Surveyors under his contract No. 285, dated April 12, 1904, XX, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor

I certify that the foregoing transcript of the field notes of the above-described surveys in....., has been correctly copied from the original notes on file in this office.

United States Surveyor

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4-679.

BOOK A-326

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FILED

OCT 22 1904

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of
T, R, S, R, 25 E.

of the Salt Lake Pass and Meridian,
in the state of Utah

AS SURVEYED BY

Alfredo R Palamantes nd, United States Deputy Surveyor,
Harvey D Heist
Under his Contract No. 285, dated April 12-1904, 189

Survey commenced Sept 10-1904., 189

Survey completed Sept 18-1904., 189

6-151

High 61 62. 21 ✓
ctg 1 55.51 ✓

NAMES AND DUTIES OF ASSISTANTS.

Julius H White Chairman
Egbert White " "
Howard M Hodge Moundman
William Pearson Axman
William L White Flagman

BOOK A-326

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Township *Range*

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PRELIMINARY OATHS OF ASSISTANTS.

We, Julius H. White and Egbert White
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level
chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same;
we will report the true distances to all notable objects, and the true lengths of all lines that we assi-
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the
Subdivisions of T. 12 S., R. 25 E. of the Salt La-
Base and Meridian, Utah.

Julius H. White, Chain.
Egbert White, Chain.

Subscribed and sworn to before me this 10
day of Sept, 1891904



E. T. Garber
Notary Public

We, Howard M. Hodge and
do solemnly swear that we will well and truly perform the duties of moundmen in the establish-
ment of corners, according to the instructions given us, to the best of our skill and ability, in the surv-
Subdivisions of T. 12 S., R. 25 E. of the
Lake Base and Meridian, Utah.

Howard M. Hodge, Mound.
Howard M. Hodge, Mound.

Subscribed and sworn to before me this 10
day of Sept 1904, 189



E. T. Garber
Notary Public

We, William Pearson and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of
and other duties, according to instructions given us, to the best of my skill and ability in the surv-
Subdivisions of T. 12 S., R. 25 E. of the S
Lake Base and Meridian, Utah.

William Pearson, Axm
William Pearson, Axm

Subscribed and sworn to before me this 10
day of Sept 1904, 189



E. T. Garber
Notary Public

I, William R. White, do solemnly swear that I will well and
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in
survey of Subdivisions of T. 12 S., R. 25 E. of
Salt Lake Base and Meridian, Utah.

William R. White, Flagm

Subscribed and sworn to before me this 10
day of Sept 1904, 189



E. T. Garber
Notary Public

SUBDIVISIONS OF T. 12 S., R. 25' E.

CHAINS

Survey commenced Sept. 10, 1904, and executed with the instrument described in book "N." of this survey.

I know the instrument to be in adjustment from recent observations made Sept. 8th, 1904, and recorded in book "Z." of this survey.

At 8h a.m., l.m.t., I set off $39^{\circ}43' N.$ on the lat.arc; $4^{\circ}59' N.$ on the decl.arc; and determine a meridian with the solar at the cor. of secs. 5-6; 31 and 32, heretofore described on the S.bdy. of the Tp.

Thence I run

N. $0^{\circ}01'E.$, bet. secs. 31 and 32.

Descend along E.side of gulch, through scattering cedar and pinon timber.

23.00 Bottom of gulch, 100 ft. deep, course NW.

Ascend.

32.00 Top of spur projects W.

Descend.

37.00 Bottom of hollow, 75 ft. deep, course W.

Ascend.

40.00 Set a sandstone, 20x8x6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

49.00 Top of spur projects W.

Descend.

63.00 Bottom of hollow, 100 ft. deep, course W.

Ascend.

68.00 Top of ridge bears NW. and SE.

Descend.

80.00 Set a sandstone, 20x8x6 ins., 15 ins. in the ground, for cor.ofsecs. 29-30-31 and 32, marked with 1 notch on the S. and 5 notches on the E.edge; from which.

A pinon, 8 ins. diam., bears N. $62^{\circ}E.$, 50 lks.dist., marked T 12 S R 25 E S 29 B T.

SUBDIVISIONS OF T.13 S., R.25 E.

CHAINS

A pinon, 6 ins. diam., bears S.45°E., 92 lks. dist., marked T 12 S R 25 E S 32 B T.

A pinon, 5 ins. diam., bears S.26°W., 56 lks. dist., marked T 12 S R 25 E S 31 B T.

A pinon, 10 ins. diam., bears N.20°W., 23 lks. dist., marked T 12 S R 25 E S 30 B T.

Land, mountainous.

Soil : rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

West on a random line bet. secs. 30 and 31.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.08 Intersect W. bdy. of the Tp., 5 lks. N. of the cor. of secs. 25-30-31 and 36, heretofore described.

Thence I run

N.89°58'E., on a true line

bet. secs. 30 and 31.

Descend over mountainous land through scattering cedar and pinon timber.

8.50 Bottom of hollow, 200 ft. deep, course NE.

Ascend.

40.04 Set a sandstone, 18x8x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

A pinon, 8 ins. diam., bears N.10°E., 17 lks. dist., marked $\frac{1}{4}$ S 30 B T.

A pinon, 6 ins. diam., bears S.26°W., 32 lks. dist., marked $\frac{1}{4}$ S 31 B T.

46.00 Top of ridge bears N. and S.

Descend.

64.00 Bottom of hollow, 200 ft. deep, course N.

Ascend abruptly.

72.00 Top of spur projects NW.

Descent.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

- 80.08 The cor. of secs. 29-30-31 and 32.
 Land, mountainous.
 Soil; rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 80.08 chs.
-
- N. 0° 01' E., bet. secs. 29 and 30.
- Descend over rocky land through scattering cedar and pinon timber.
- 11.00 Bottom of hollow, 150 ft. deep, course NW.
 Ascend.
- 16.00 Top of spur projects W.
 Begin abrupt descent.
- 18.00 Bottom of hollow, 50 ft. deep, course W.
 Ascend.
- 28.00 Top of spur projects W.
 Descend.
- 40.00 Set a sandstone, 24x12x10 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
- 47.00 Bottom of hollow, 100 ft. deep, course NW.
 Ascend.
- 52.00 Top of ridge bears E. and W.
 Descend.
- 63.00 Bottom of hollow, 100 ft. deep, course NW.
 Ascend.
- 70.00 Top of spur projects W.
 Descend.
- 80.00 Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for cor. of secs. 19-20-29 and 30, marked with 2 notches on the S. and 5 notches on the E. edge; from which
 A pinon, 10 ins. diam., bears N., 40° E., 34 lks. dist.,
 marked T 12 S 25 E S 20 B T.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

A pinon, 8 ins. diam., bears S. 30° E., 23 lks. dist., marked T 12 S R 25 E S 29 B T.

A pinon, 10 ins. diam., bears S. 50° W., 60 lks. dist., marked T 12 S R 25 E S 30 B T.

A pinon, 12 ins. diam., bears N. 25° W., 33 lks. dist., marked T 12 S R 25 E S 19 B T.

Land, mountainous.

Soil; rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

S. 89° 58' W. on a random line bet. secs. 19 and 30.

40.00 Set a temp. $\frac{1}{4}$ sec. cor.

80.04 Intersect W. bdy. of the Tp., 7 lks. S. of the cor. of secs. 19-24-25 and 30, heretofore described.

Thence I run

S. 89° 59' E. on a true line
bet. secs. 19 and 30.

Ascend over rocky land.

5.00 Top of spur projects NE.

Descend.

25.00 Bottom of hollow, 100 ft. deep, course SW.

Ascend.

40.02 Set a sandstone, 18x12x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{2}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

42.50 Top of spur projects N.

Descend.

56.00 Bottom of hollow, 100 ft. deep, course N.

Ascend.

63.00 Top of spur projects N.

Descend.

70.00 Bottom of hollow, 100 ft. deep, course N.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

- Ascend.
- 80.04 The cor. of secs. 19-20-29 and 30.
Land, mountainous.
Soil; rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.04. chs.
Sept. 10: At this cor., I set off $4^{\circ}54'N.$ on the decl. arc;
and at 11h 57m a.m., l.m.t., observe the sun on the
meridian; the resulting lat. is $39^{\circ}45'N.$
-
- $N.0^{\circ}01'E.$, bet. secs. 19 and 20.
- Descend over mountainous land through scattering cedar
and pinon timber.
- 5.50 Bottom of hollow, 50 ft. deep, course NW.
Ascend.
- 15.00 Top of spur projects NW.
Descend.
- 33.00 Bottom of hollow, 100 ft. deep, course NW.
Ascend.
- 40.00 Set a sandstone, 18x10x5 ins., 12 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
A pinon, 8 ins. diam., bears S. $60^{\circ}E.$, 30 lks. dist.,
marked $\frac{1}{4}$ S 30 B T.
A pinon, 10 ins. diam., bears N. $89^{\circ}W.$, 46 lks. dist.,
marked $\frac{1}{4}$ S 19 B T.
- 40.50 Top of spur projects W.
Descend.
- 56.00 Bottom of hollow, 150 ft. deep, course W.
Ascend.
- 71.00 Top of ridge bears E. and W.
Descend.
- 80.00 Set a sandstone, 18x8x5 ins., 12 ins. in the ground, for cor
of secs. 17-18-19 and 20, marked with 4 notches on the S.
and 5 notches on the E. edge; from which
A pinon, 10 ins. diam., bears N. $15^{\circ}E.$, 2.70 chs. dist.,

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

marked T 12 S R 25 E S 17 B T.

A pinon, 8 ins. diam., bears S. 26° E., 76 lks. dist.,

marked T 12 S R 25 E S 20 B T.

A pinon, 10 ins. diam., bears S. 30° W., 1.05 chs. dist.,

marked T 12 S R 25 E S 19 B T.

A cedar, 8 ins. diam., bears N. 20° W., 2.30 chs. dist.,

marked T 12 S R 25 E S 18 B T.

Land, mountainous.

Soil; rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

N. 89° 59' W., on a random line bet. secs. 18 and 19.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.90 Intersect W. bdy. of the Tp., 5 lks. S. of the cor. of secs. 13-18-19 and 24, heretofore described.

Thence I run

S. 89° 57' E., on a true line

bet. secs. 18 and 19.

Descend over mountainous land through scattering cedar and pinon timber.

2.50 Bottom of hollow, 75 ft. deep, course NE.

Ascend.

7.00 Top of spur projects NE.

Descend.

15.50 Bottom of hollow, 150 ft. deep, course NW.

Ascend.

39.95 Set a sandstone, 18x14x3 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

A pinon 14 ins. diam., bears N. 79° 20' E., 8 lks. dist.,
marked $\frac{1}{4}$ S 18 B T.

A pinon, 10 ins. diam., bears S. 73° 10' W., 21 lks. dist.,
marked $\frac{1}{4}$ S 19 B T.

SUBDIVISIONS OF T.12 S.R. 25 E.

CHAINS

- 79.90 cor. of secs. 17-18-19 and 20.
 Land, mountainous.
 Soil: rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 79.90 chs.
-
- N.0°01'E., bet. secs. 17 and 18.
- Descend over mountainous land through scattering cedar and pinon timber.
- 4.00 Head of hollow, course W.
 Ascend.
- 11.00 Top of spur projects W.
 Descend.
- 23.00 Bottom of hollow, 75 ft. deep, course W.
 Ascend.
- 37.00 Top of spur projects SW.
 Descend.
- 40.00 Set a sandstone, 18x12x3 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
 A pinon, 10 ins. diam., bears N.87°E., 32 lks. dist.
 marked $\frac{1}{4}$ S 17 B T.
 A pinon, 8 ins. diam., bears west, 25 lks. dist.
 marked $\frac{1}{4}$ S 18 B T.
- 52.00 Bottom of gulch, 100 ft. deep, course W.
 Ascend.
- 60.00 Top of spur projects W.
 Descend.
- 71.00 Bottom of hollow, 150 ft. deep, course SW. Ascend.
- 80.00 Set a sandstone, 14x8x5 ins., 9 ins. in the ground, for cor. of secs. 7-8-17 and 18, marked with 4 notches on the S. and 5 notches on the E. edge; from which
 A pinon, 12 ins. diam., bears N.28°50'E., 69 lks. dist.,
 marked T.12 S R.25 E S.8 B T.
 A pinon, 10 ins. diam., bears S.24°50'E., 34 lks. dist.,

ADDITIONS OF T.12 R.23S.

SECTION T 12 R 23 S 17 E 17 S T.

A piece, 14 lbs. ston., base 3.51' 20"., no lim. dist.

SECTION T 12 R 23 S 18 E T.

A piece, 14 lbs. ston., base 3.51' 20"., no lim. dist.

SECTION T 12 R 23 S 18 E T.

LAST, irregular.

Irregular, fine rock.

Fine, piece not broken.

Irregular, land or no. 00 size.

Sept. 10, 1904.

Sept. 11: At 8: a.m., I m.t., I set off 30° 47' N. on the Int. 40° 47' W., on the N.E. end of a meridian with the solar at the cor. of secn. 7-8-17 and 18. Therefore, I run

1.89' 57" N. on a random line between 7 and 18. Set 1003.4 lbs. C.R.

Intersection, N.W. of the N.E. 1/4 line, of the cor. of secns. 7-12-13 and 14, heretofore described.

Therefore I run 2.80' 56" W., on a true line between 7 and 18.

I expect over broken land through scattering cedar and pine timber. Top of a hill, 110 ft. C.R.P. diameter 32". Top of spur project 9.

Per cent. 1.89' 57" N. on a random line between 7 and 18. Bottom of hill, 110 ft. C.R.P. diameter 32". Top of spur project 9.

Top of spur project 9, and 97. Per cent. 1.89' 57" N. on a random line between 7 and 18. Top of spur project 9.

For a comparison, I paid 100.00 toward the amount, for a 100.00, which I got 9. Received value a dozen of a dozen, 10.00, base, 1.89' 57" N. C.R.P. Price "inexplicable."

40.00

70.00

2.00

14.00

2.00

52.00

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

- 42.00 Bottom of hollow, 150 ft. deep, course SW.
Ascend.
67.00 Top of spur projects S.
Descend. Enter scattering cedar and pinon timber.
73.00 Bottom of hollow, 75 ft. deep, course SW.
79.92 The cor. of secs. 7-8-17 and 18.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, pinon.
Mountainous land on 79.92 chs.
-

N. 0° 01' E., bet. secs. 7 and 8.

Ascend over rocky land through scattering cedar and pinon timber.

- 0.30 Wagon road bears NW. and SE.
2.20 Top of ridge bears NW. and SE.
Descend.
23.00 Bottom of hollow, 100 ft. deep, course E.
Ascend.
38.00 Top of ridge bears E. and W.
Descend.
40.00 Set a sandstone, 18x10x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which
A pinon, 4 ins. diam., bears N. 75° E., 25 lks. dist.,
marked $\frac{1}{2}$ S 8 B T.
A pinon, 8 ins. diam., bears N. 80° W., 38 lks. dist.,
marked $\frac{1}{2}$ S 7 B T.
48.00 Bottom of hollow, 150 ft. deep, course NE.
Ascend.
69.00 Top of ridge bears NE. and SW.
Descend.
80.00 Set a sandstone, 18x6x6 ins., 12 ins. in the ground, for cor. of secs. 5-6-7 and 8, marked with 5 notches on the S. and E. edges; and raise a mound of stone, 2 ft. base,

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS	
	1 $\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil, rocky, 3rd rate.
	Timber, cedar and pinon.
	Mountainous land on 80.00 chs.

	N. 89° 56' W., on a random line bet. secs. 6 and 7.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.16	Intersect W. bdy. of the Tp., 5 lks. N. of the cor. of secs. 1-6-7 and 12. Thence I run
	S. 89° 58' E., on a true line bet. secs. 6 and 7.
	Ascend through dense artemisia and scattering cedar and pinon timber.
20.00	Top of ridge bears N. and S.
	Descend.
30.00	Wagon road bears N. and S.
36.00	Bottom of hollow, 100 ft. deep, course N.
	Ascend.
40.08	Set a sandstone, 18x10x3 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A cedar, 8 ins. diam., bears N. 8° 30' E., 49 lks. dist., marked $\frac{1}{4}$ S 6 B T. A cedar, 6 ins. diam., bears S. 73° E., 1.35 chs. dist., marked $\frac{1}{4}$ S 7 B T.
44.50	Top of spur projects N.
	Descend.
51.00	Bottom of hollow, 150 ft. deep, course N.
	Ascend.
67.00	Top of ridge bears N. and S.
	Descend.
72.00	Bottom of gulch, 100 ft. deep, course N.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

Ascend.

79.00 Top of spur projects N.

Descend.

80.16 The cor. of secs. 5-6-7 and 8.

Land, mountainous.

Soil; rocky, 3rd rate.

Timber, pinon and cedar.

Mountainous land and dense undergrowth on 80.16 chs.

N. $0^{\circ}01' E.$, on a random line bet. secs. 5 and 6.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.06 Intersect N. bdy. of the Tp., 19 lks. W. of the cor. of secs. 5-6-31 and 32, heretofore described.

Thence I run

S. $0^{\circ}05' W.$, on a true line bet. secs. 5 and 6.

Descend over rocky land through scattering cedar and pinon timber.

6.50 Bottom of hollow, 100 ft. deep, course NW.

Ascend.

28.00 Top of spur projects W., Descend.

32.00 Bottom of hollow 75 ft. deep, course W. Ascend.

40.06 On spur projecting NW.

Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which

A cedar, 10 ins. diam., bears N. $70^{\circ} W.$, 55 lks. dist., marked $\frac{1}{4}$ S 6 B T.

A cedar, 6 ins. diam., bears N. $88^{\circ} E.$, 30 lks. dist., marked $\frac{1}{4}$ S 5 B T..

54.00 Bottom of hollow, 150 ft. deep, course NW.

Ascend.

68.00 Top of spur projects NW.

Descend.

73.00 Bottom of hollow, 50 ft. deep, course NW.

Ascend.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS	
80.06	The cor. of secs. 5-6-7 and 8. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 80.06 chs. Sept. 11: At this cor., I set off $4^{\circ}32'N.$ on the decl. arc; and at 11h 57m a.m., l.m.t.; observe the sun on the meridian; the resulting lat. is $39^{\circ}49'N.$ From the cor. of secs. 4, 5, 32, and 33 on S. bdy. of Tp., heretofore described, I run $N.0^{\circ}01'E.$ bet. secs. 32 and 33, and Ascend over rocky land, through scattering cedar and pinon timber.
28.00	Top of spur projects W.; descend.
40.00	Set a sandstone, $22 \times 11 \times 8$ ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A pinon, 6 ins. diam., bears east, 7 lks. dist., marked $\frac{1}{4} S 33 B T.$ A cedar, 8 ins. diam., bears W., 32 lks. dist., marked $\frac{1}{4} S 32 B T.$
42.00	Bottom of ravine, 150 ft. deep, course W. Ascend.
60.00	Top of spur projects W. Descend.
80.00	Set a sandstone, $18 \times 10 \times 5$ ins., 12 ins. in the ground, for cor. of secs. 28-29-32 and 33, marked with 4 notches on the E. and 1 notch on the S. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 80.00 chs.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

- West on a random line bet. secs. 29 and 32.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.92 Intersect N. and S. line, 3 lks. S. of the cor. of secs. 29-30-31 and 32.
Thence I run
S. 89° 59' E., on a true line
bet. secs. 29 and 32.
- Ascend over broken land through scattering cedar and pinon timber.
- 2.50 Top of spur projects N.
Descend.
- 21.50 Bottom of hollow, 200 ft. deep, course NW.
Begin abrupt ascent.
- 27.00 Top of ridge bears NW. and SE.
Descend.
- 32.50 Bottom of hollow, 100 ft. deep, course NW.
Ascend.
- 39.96 Set a sandstone, 18x10x6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
A pinon, 10 ins. diam., bears N. 88° W., 30 lks. dist.,
marked $\frac{1}{4}$ S 29. B T.
A pinon, 8 ins. diam., bears S. 62° E., 56 lks. dist.,
marked $\frac{1}{4}$ S 32 B T.
- 44.50 Wagon road bears N. and S.
- 45.00 Top of ridge bears N. and S.
Descend.
- 71.00 Bottom of gulch, 200 ft. deep, course NE.
Ascend.
- 79.92 The cor. of secs. 28-29-32 and 33.
Land, mountainous.
Soil, rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 79.92 chs.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

N.0°01'W., bet. secs. 28 and 29.

- Descend over rocky land through scattering cedar and pinon timber.
- 22.00 Bottom of gulch, 200 ft. deep, course NE.
Ascend.
- 40.00 Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for cor. of sec. 29, marked $\frac{1}{4}$ on W. face; from which
A pinon, 8 ins. diam., bears N.80°E., 45 lks. dist.,
marked $\frac{1}{4}$ S 28 B T.
A pinon, 8 ins. diam., bears S.75°W., 50 lks. dist.,
marked $\frac{1}{4}$ S 29 B T.
- 46.00 Top of spur projects E.
Descend.
- 54.00 Bottom of hollow, 75 ft. deep, course E.
Ascend.
- 73.00 Top of ridge bears E. and W.
Descend.
- 80.00 Set a sandstone, 18x8x8 ins., 12 ins. in the ground, for cor. of secs. 20-21-28 and 29, marked with 2 notches on the S. and 4 notches on the E. edge; from which
A pinon, 8 ins. diam., bears N.28°E., 37 lks. dist.,
marked T 12 S R 25 E S 21 B T.
A cedar, 6 ins. diam., bears S.44°E., 17 lks. dist.,
marked T 12 S R 25 E S 28 B T.
A pinon, 10 ins. diam., bears S.52°W., 20 lks. dist.,
marked T 12 S R 25 E S 29 B T.
A pinon, 10 ins. diam., bears N.30°W., 28 lks. dist.,
marked T 12 S R 25 E S 20 B T.
- Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.00 cha.

Sept. 11, 1904.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

- Sept. 12, 1904: At 8h a.m., l.m.t., I set off $39^{\circ}45'N.$ on the lat. arc; $4^{\circ}13'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 20-21-28 and 29.
 Thence I run
 $N.89^{\circ}59'W.$ on a random line bet. secs. 20 and 29.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.08 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 19-20-29 and 30.
 Thence I run
 $S.89^{\circ}57'E.$, on a true line
 bet. secs. 20 and 29:
 Ascend over rocky land through scattering cedar and pinon timber.
- 4.00 Top of ridge bears N. and S.
 Descend.
- 23.00 Bottom of hollow, 150 ft. deep, course NW.
 Ascend.
- 40.04 Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
 A pinon, 6 ins. diam., bears $N.45^{\circ}E.$, 35 lks. dist., marked $\frac{1}{4} S 20 B T.$
 A pinon, 8. ins. diam., bears $S.75^{\circ}E.$, 1.20 chs. dist., marked $\frac{1}{4} S 29 B T.$
- 46.00 Top of ridge bears N. and S.
 Descend. Wagon road bears N. and S.
- 57.00 Bottom of hollow, 100 ft. deep, course NE.
 Ascend.
- 74.00 Top of spur projects NE.
 Descend.
- 80.08 The cor. of secs. 20-21-28 and 29.
 Land, mountainous.
 Soil; rocky, 3rd rate.
 Timber; cedar and pinon.
 Mountainous land on 80.08 chs.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

	N.0°01'E., bet. secs. 20 and 21.
	Ascend over rocky land through scattering cedar and pinon timber.
13.50	Top of spur projects NE. Descend.
27.00	Bottom of hollow, 150 ft. deep, course NE. Ascend.
40.00	Set a sandstone, 20x8x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which A cedar, 6 ins. diam., bears S.20°E., 17 lks.dist., marked $\frac{1}{4}$ S 21 B T. A cedar, 6 ins. diam., bears S.89°W., 19 lks.dist., marked $\frac{1}{4}$ S 20 B T.
52.00	Top of spur projects E. Descend.
65.00	Bottom of hollow, 100 ft. deep, course E. Ascend.
72.00	Top of ridge bears E. and W. Descend.
76.50	Bottom of hollow, 100 ft. deep, course E. Ascend.
80.00	Set a sandstone, 16x12x3 ins., 11 ins. in the ground, for cor. of secs. 16-17-20 and 21, marked with 3 notches on the S. and 4 notches on the E. edge; from which A pinon, 8 ins. diam., bears N.45°E., 20 lks.dist., marked T 12 S R 25 E S 16 B T. A pinon, 12 ins. diam., bears S.24°E., 50 lks.dist., marked T 12 S R 25 E S 21 B T. A pinon, 4 ins. diam., bears S.35°W., 49 lks.dist., marked T 12 S R 25 E S 20 B T. A pinon, 10 ins. diam., bears N.45°W., 63 lks.dist., marked T 12 S R 25 E S 17 B T.
	Land, mountainous.
	Soil: rocky, 3rd rate.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

- Timber, cedar and pinon.
- Mountainous land on 80.00 chs.
- N. 89° 57' W., on a random line bet. secs. 17 and 20.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Intersect N. and S. line, 3 lks. S. of the cor. of secs. 17-18-19 and 20.
- Thence I run
- S. 89° 56' E., on a true line
bet. secs. 17 and 20.
- Ascend over mountainous land through scattering cedar and pinon timber.
- 11.00 Top of ridge bears NE. and SW.
- Descend.
- 17.50 Head of hollow, course SW.
- Ascend.
- 31.50 Top of ridge bears N. and S.
- Wagon road bears N. and S.
- Descend.
- 40.02 Set a sandstone, 16x12x3 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
- A pinon, 12 ins. diam., bears N. 23° E., 30 lks. dist.,
marked $\frac{1}{4}$ S 17 B T.
- A pinon, 4 ins. diam., bears S. 73° W., 13 lks. dist.,
marked $\frac{1}{4}$ S 20 B T.
- 42.00 Head of hollow, course NE.
- Ascend.
- 46.00 Top of spur projects NE.
- Descend.
- 53.50 Bottom of hollow, 150 ft. deep, course NE.
- Ascend.
- 61.00 Top of spur projects NE.
- Descend.
- 65.30 Bottom of hollow, 100 ft. deep, course NE.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS	
	Ascend.
70.00	Top of ridge bears NE. and SW.
	Descend.
80.04	The cor. of secs. 16-17-20 and 21.
	Land, mountainous.
	Soil: rocky, 3rd rate.
	Timber, cedar and pinon.
	Mountainous land on 80.04 chs.

	N. 0°01'E., bet. secs. 16 and 17.
	Ascend over rocky land through scattering cedar and pinon timber.
8.50	Top of ridge bears NE. and SW.
	Descend.
40.00	Set a sandstone, 14x12x5 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
44.00	Bottom of hollow, 100 ft. deep, course NE.
	Ascend.
64.00	Top of ridge bears NE. and SW.
	Descend.
75.00	Bottom of hollow, 100 ft. deep, course NE.
	Ascend.
80.00	Set a sandstone, 18x12x5 ins., 12 ins. in the ground, for cor. of secs. 8-9-16 and 17, marked with 4 notches on the S. and E. edges; from which
	A cedar, 10 ins. diam., bears N. 32° E., 15 lks. dist., marked T 12 S R 25 E S 9 B T.
	A pinon, 12 ins. diam., bears S. 40° E., 62 lks. dist., marked T 12 S R 25 E S 16 B T.
	A cedar, 6 ins. diam., bears S. 20° W., 68 lks. dist., marked T 12 S R 25 E S 17 B T.
	A cedar, 6 ins. diam., bears N. 72° W., 42 lks. dist.,

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

marked T 12 S R 25 E S 8 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

Sept. 12: At this cor., I set off $4^{\circ} 9' N.$ on the decl. arc; and at 11h 56m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is $39^{\circ} 47' N.$

N. $89^{\circ} 56' W.$, on a random line bet. secs. 8 and 17.40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.12 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 7-8-17 and 18.

Thence I run

S. $89^{\circ} 54' E.$, on a true line
bet. secs. 8 and 17.

Ascend over rocky land through scattering cedar and pinon timber.

0.75 Wagon Road bears NW. and SE.

1.20 Top of ridge bears NW. and SE.

Descend.

18.00 Bottom of hollow, 150 ft. deep, course NE.

Ascend.

32.00 Top of ridge bears NE. and SW.

Descend.

40.06 Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

42.00 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

57.00 Top of ridge bears NE. and SW.

Descend.

80.12 The cor. of secs. 8-9-16 and 17.

Land, mountainous.

SUBDIVISIONS OF T. 13 S., R. 25 E.

CHAINS	
	Soil: rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 80.12 chs.
	N. 0°01'E., bet. secs. 8 and 9. Ascend over rocky land through scattering cedar and pinon timber.
25.00	Top of spur projects NE. Descend.
34.50	Bottom of hollow, 150 ft. deep, course NE. Ascend.
40.00	Set a sandstone, 18x8x4 ins., 12 ins. in the ground, for sec.cor., marked $\frac{1}{4}$ on W.face; from which A pinon, 6 ins. diam., bears N. 57°E., 17 lks.dist., marked $\frac{1}{4}$ S 9 B T. A pinon, 10 ins. diam., bears S. 75°W., 44 lks.dist., marked $\frac{1}{4}$ S 8 B T.
46.00	Spur projects E., Descend.
55.00	Bottom of hollow, 150 ft. deep, course NE. Ascend abruptly.
62.00	Top of spur projects E. Descend.
69.00	Bottom of hollow, 100 ft. deep, course E. Ascend.
75.00	Top of ridge bears E. and W. Descend.
80.00	Set a sandstone, 20x10x3 ins., 15 ins. in the ground, for cor. of secs. 4-5-8 and 9, marked with 5 notches on the S. and 4 notches on the E. edge; from which A pinon, 8 ins. diam., bears N. 33°E., 24 lks.dist., marked T 12 S R 25 E S 4 B T. A cedar, 8 ins. diam., bears S. 62°E., 40 lks.dist., marked T 12 S R 25 E S 9 B T. A pinon, 5 ins. diam., bears S. 29°W., 37 lks.dist., marked T 12 S R 25 E S 8 B T.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

A pinon, 5 ins. diam., bears N. 29° W., 37 lks. dist., marked T 12 S R. 25 E S. 5 B. T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

N. 89° 54' W. on a random line bet. secs. 5 and 8.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.04 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 5 -6-7-8.

Thence I run

S. 89° 58' E., on a true line

bet. secs. 5 and 8.

Descend over broken land through scattering cedar and pinon timber.

1.00 Bottom of hollow, 50 ft. deep, course N.

Ascend.

9.00 Top of ridge bears N. and SW.

Descend.

26.00 Bottom of hollow, 200 ft. deep, course NE.

Begin abrupt ascent.

38.00 Top of ridge bears NW. and SW.

40.02 Set a sandstone, 15x9x6 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

A pinon, 8 ins. diam., bears S. 25° E., 32 lks. dist., marked $\frac{1}{4}$ S 8 B. T.

A pinon, 10 ins. diam., bears N. 15° W., 55 lks. dist., marked $\frac{1}{4}$ S 5 B. T.

53.00 Bottom of ravine, 100 ft. deep, course NE.

Ascend.

80.04 The cor. of secs. 4-5-8 and 9.

Land, mountainous.

Soil: rocky, 3rd rate.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

- Timber, cedar and pinon.
- Mountainous land on 80.04 chs.
-
- N.0°01'E., on a random line bet. Secs. 4 and 5.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.03 Intersect N. bdy. of the Tp., 7 lks. W. of the cor. of secs. 4-5-32 and 33, heretofore described.
- Thence I run
- S.0°04'W., on a true line
bet. secs. 4 and 5.
- Descend over rocky land through scattering cedar and pinon timber.
- 18.09 Intersect gilsonite vein $1\frac{1}{2}$ ft. wide, bearing NW. & SE.
- 18.00 Bottom of hollow, 150 ft. deep, course NW. Ascend.
- 32.00 From this point, U.S.L.M., No. 7, which is a pine post, 6"x6", 4 ft. above ground, marked and witnessed as described by the surveyor general, bears N.37°30'E., 11.35 chs. dist.,
- 34.00 Top of ridge bears NE. and SW.
- Descend.
- 40.03 Set a sandstone, 15x10x5 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- Pits impracticable.
- 46.00 Bottom of hollow, 100 ft. deep, course SE.
- Ascend..
- 52.00 Top of spur projects SE.
- Descend..
- 56.00 Bottom of hollow, 150 ft. deep, course E.
- Ascend..
- 80.03 The cor. of secs. 4-5-8 and 9.
- Land mountainous.
- Soil: rocky, 3rd rate.
- Timber, cedar and pinon.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

Mountainous land on 80.03 chs.

Sept. 12, 1904.

Sept. 13: At 8h a.m., l.m.t., I set off $39^{\circ}43'N.$ on the lat. arc; $3^{\circ}50'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3-4-33 and 34, here-tofore described, on the S.bdy. of the Tp.

Thence I run

 $N.0^{\circ}02'E.$, bet. secs. 33 and 34.

Ascend over rocky land through scattering cedar and pinon timber.

7.50 Top of ridge bears E. and W.

Descend.

12.50 Bottom of hollow, 150 ft. deep, course E.

Ascend.

34.00 Top of ridge bears E. and W.

Descend.

40.00 Set a sandstone, 20x8x8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

61.00 Bottom of hollow, 100 ft. deep, course E.

Ascend.

80.00 Set a sandstone, 20x6x6 ins., 15 ins. in the ground, for cor. of secs. 27-28-33 and 34, marked with 1 notch on the S. and 3 notches on the E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

- Test on a random line bet. secs. 28 and 33.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.80 Intersect N. and S. line, 7 lks. N. of the cor. of secs.
28-29-32 and 33.
- Thence I run
N. $89^{\circ} 57' E.$, on a true line
bet. secs. 28 and 33.
- Ascend over rocky land, through scattering cedars & pinons
- 12.00 Top of spur projects N.
- Descend.
- 22.50 Bottom of hollow, 150 ft. deep; course N.E.
- Ascend. Leave timber.
- 39.50 Top of ridge bears N. and S.
- Descend.
- 39.00 Set a sandstone, 18x8x8 ins., 12 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of
stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
- 49.00 Bottom of hollow, 100 ft. deep, course N.
- Ascend.
- 61.00 Top of spur projects N.
- Descend.
- 63.50 Bottom of hollow, 100 ft. deep, course N.
- Ascend.
- 76.00 Top of ridge bears N. and S.
- Descend.
- 79.80 The cor. of secs. 27-28-33 and 34.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 79.80 obs.

SUBDIVISIONS OF T.12 S., R.24 E.

CHAINS

N.0°02'E., bet. secs. 27 and 28.

Ascend over rocky land through scattering cedar and pinon timber.

18.50 Top of ridge bears N. and SW.

Descend along top of ridge.

40.00 Junction of two ridges, bearing NW. and S., and NE. and S.

Set a sandstone, 16x8x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which

A pinon, 6 ins. diam., bears S.80°30'E., 10 lks. dist., marked $\frac{1}{4}$ S 27 B T.

A pinon, 7 ins. diam., bears S.22°30'W., 24 lks. dist., marked $\frac{1}{4}$ S 28 B T.

66.00 Head of hollow, course NE.

Ascend.

80.00 Set a sandstone, 14x12x8 ins., 9 ins. in the ground, for cor. of secs. 21-22-27 and 28, marked with 2 notches on the S. and 3 notches on the E. edge; from which

A pinon, 8 ins. diam., bears N.55°E., 59 lks. dist., marked T 12 S R 25 E S 22 B T.

A pinon, 6 ins. diam., bears S.31°25'E., 55 lks. dist., marked T 12 S R 25 E S 27 B T.

A pinon, 5 ins. diam., bears S.77°45'W., 18 lks. dist., marked T 12 S R 25 E S 28 B T.

A pinon, 6 ins. diam., bears N.29°W., 45 lks. dist., marked T 12 S R 25 E S 21 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

Sept. 13: At this cor., I set off 3°46' N. on the decl. arc; and at 11h.56m a.m., 1.m.t., observe the sun on the meridian; the resulting lat. is 39°46' N.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

- S.89°57'W. on a random line bet. secs. 21 and 28.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.84 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 20-21-28 and 29.
Thence I run
N.89°56'E., on a true line
bet. secs. 21 and 28.
Descend over rocky land through scattering cedar and pinon timber.
- 0.50 Bottom of hollow, 100 ft. deep, course NE.
Ascend.
- 12.00 Top of ridge bears NE. and SW.
Descend.
- 25.00 Bottom of hollow, 150 ft. deep, course N.
Begin abrupt ascent.
- 36.00 Top of spur projects N.
Descend.
- 39.92 Set a sandstone, 20x12x8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
- 58.00 Bottom of hollow, 200 ft. deep, course N.
Ascend.
- 74.00 Top of ridge bears N. and S.
Descend.
- 79.84 The cor. of secs. 21-22-27 and 28.
Land, mountainous.
Soil; rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 79.84 chs.
-
- N.0°02'E., bet. secs. 21 and 22.
Ascend over rocky land through scattering cedar and pinon timber.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

- pinon timber.
- 34.00 Top of ridge bears NE. and SW.
Descend.
- 40.00 Set a sandstone, 16x13x4 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which
A pinon, 6 ins. diam. bears S. $89^{\circ} 20' E.$, 42 lks. dist.,
marked $\frac{1}{4}$ S 22 B T.
A pinon, 8 ins. diam., bears S. $78^{\circ} W.$, 49 lks. dist.,
marked $\frac{1}{4}$ S 21 B T.
- 73.50 Bottom of hollow, 250 ft. deep, course NE.
Ascend.
- 80.00 Set a sandstone, 16x8x8 ins., 11 ins. in the ground, for
cor. of secs. 15-16-21 and 22, marked
12 S on NE.,
25 E on SE. face; with 3 notches on the S.
and E. edges, from which
A pinon, 11 ins. diam., bears N. $39^{\circ} 10' W.$, 86 lks. dist.,
marked T 12 S R 25 E S 16 B T.
A pinon, 8 ins. diam., bears S. $68^{\circ} 25' W.$, 82 lks. dist.,
marked T 12 S R 25 E S 21 B T.
No other trees within limits; and raise a mound of
stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.00 chs.
-
- S. $89^{\circ} 56' W.$, on a random line bet. secs. 16 and 21.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 80.08 Intersect N. and S. line, 7 lks. S. of the cor. of secs.
16-17-20 and 21.
Thence I run

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

- N. $89^{\circ}59' E.$, on a true line
betsecs. 16 and 21.
- Descend over rocky land through scattering cedar and pinon timber.
- 14.00 Bottom of hollow, 150 ft. deep, course NE.
Ascend.
- 34.00 Top of spur projects NE.
Descend.
- 40.04 In bottom of hollow, 250 ft. deep, course NE.
Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
- 61.00 Top of ridge bears NE. and SW.
Descend.
- 80.08 The cor.of secs. 15-16-21 and 22.
Land, mountainous.
Soil; rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.08 chs.
-
- N. $0^{\circ}02' E.$, betsecs. 15 and 16.
- Ascend over rocky land through scattering cedar and pinon timber.
- 6.50 Top of spur projects E.
Descend.
- 40.00 Set a sandstone, 16x14x3 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which
A pinon, 12 ins. diam., bears S. $43^{\circ}20' W.$, 27 lks.dist.,
marked $\frac{1}{4}$ S 16 B T.
A cedar, 14 ins. diam., bears S. $66^{\circ} E.$, 31 lks.dist.,
marked $\frac{1}{4}$ S 15 B T.
- 45.20 Bottom of hollow, 300 ft. deep, course NW.
Ascend.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

- 79.00 Top of spur projects SW.
Descend.
80.00 Set a sandstone, 16x12x3 ins., 11 ins. in the ground, for cor. of secs. 9-10-15 and 16, marked with 4 notches on the S. and 3 notches on the E. edge; from which
A pinon, 12 ins. diam., bears N.12°30' E., 82 lks. dist., marked T 12 S R 25 E S 10 B T.
A pinon, 14 ins. diam., bears S.23°W., 23 lks. dist., marked T 12 S R 25 E S 16 B T.
A pinon, 12 ins. diam., bears N.71°W., 62 lks. dist., marked T 12 S R 25 E S 9 B T.
No other trees within limits; raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.00 chs.
-
- S.89°59'W., on a random line bet. secs. 9 and 16.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.00 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 8-9-16 and 17.
Thence I run
S.89°58'E., on a true line
bet. secs. 9 and 16.
Descend over rocky land through scattering cedar and pinon timber.
3.00 Bottom of hollow, 100 ft. deep, course NE.
Ascend.
17.00 Top of spur projects N.
Descend.
26.00 Bottom of hollow, 150 ft. deep, course NE.
Begin abrupt ascent.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

- 33.00 Top of spur projects N.
Descend.
- 40.03 Set a sandstone, 18x8x8 ins. in the ground, for $\frac{1}{4}$ sec.cor.,
marked $\frac{1}{4}$ on N.face; and raise a mound of stone, 2 ft. base,
 $1\frac{1}{2}$ ft. high, N.of cor.
Pits impracticable.
- 56.00 Bottom of gulch, 250 ft. deep, course N.
Ascend.
- 80.06 The cor.of secs.9-10-15 and 16.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 80.06 chs.
- Sept.13, 1904.
-
- Sept.14: At 8h a.m., l.m.t., I set off $3^{\circ}27'N.$ on the decl.
arc; $39^{\circ}47'N.$ on the lat.arc; and determine a meridian
with the solar at the cor.of secs.9-10-15 and 16.
Thence I run
- N. $0^{\circ}02'E.$, bet.secs.9 and 10.
Descend over rocky land, through scattering cedar and
pinon timber.
- 40.00 Set a sandstone, 16x14x3 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which
A cedar, 6 ins.diam., bears S. $40^{\circ}E.$, 57 lks.dist.,
marked $\frac{1}{4}$ S 10 B T.
A pinon, 14 ins.diam., bears S. $82^{\circ}W.$, 1.11 chs.dist.,
marked $\frac{1}{4}$ S 9 B T.
- 64.50 Bottom of hollow, 100 ft.course W.
Ascend.
- 69.25 Top of ridge bears NW.and SE.
Descend.
- 76.00 A gilsonite vein, 2 ft.wide, on Dragon Lode, bears NW.
and SE.
- 80.00 Set a sandstone, 16x12x4 ins., 11 ins. in the ground, for
cor.of secs.3-4-9 and 10, marked with 5 notches on the

CHAINS

S. and 3 notches on the E. edge; from which

A pinon, 8 ins. diam., bears N. $17^{\circ}40' E.$, 2.98 chs. dist.,
marked T 12 S R 25 E S 3 B T.

A pinon, 9 ins. diam., bears S. $86^{\circ}45' E.$, 1.08 chs. dist.,
marked T 12 S R 25 E S 10 B T.

A pinon, 5 ins. diam., bears S. $51^{\circ} W.$, 1.85 chs. dist.,
marked T 12 S R 25 E S 9 B T.

A pinon, 9 ins. diam., bears N. $74^{\circ}30' W.$, 1.96 chs. dist.,
marked T 12 S R 25 E S 4 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

N. $89^{\circ}58' E.$, on a random line bet. secs. 4 and 9.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.96 Intersect N. and S. line, 9 lks. N. of the cor. of secs.
4-5-8 and 9.

Thence I run

N. $89^{\circ}58' E.$, on a true line
bet. secs. 4 and 9.

Ascend over rocky land through scattering cedar and
pinon timber.

16.00 Top of spur projects NE.

Descend.

39.98 Set a sandstone, 10x10x4 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

A pinon, 10 ins. diam., bears N. $42^{\circ}25' E.$, 35 lks. dist.,
marked $\frac{1}{4}$ S 4 B T.

A pinon, 14 ins. diam., bears S. $21^{\circ} W.$, 10 lks. dist.,
marked $\frac{1}{4}$ S 9 B T..

48.25 Junction of two hollows, courses NW. to NE., and
NE., 400 ft. deep,
Begin abrupt ascent.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS	
61.50	Top of ridge bearing NW. and SE. Descend.
76.20	Gilsonite vein, 2 ft. wide, on Dragon Lode, bears NW. and SE.
79.96	The cor. of secs. 3-4-9 and 10. Land, mountainous. Soil; rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 79.96 chs.
	N. 0°02' E., on a random line bet. secs. 3 and 4.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. bdy. of the Tp., 9 lks. E. of the cor. of secs. 3-4-33 and 34, heretofore described. Thence I run
	S. 0°02' E., on a true line bet. secs. 3 and 4. Over moun'tainous land through scattering cedar and pinon timber.
40.25	Top of spur projects E. Descend.
19.50	Bottom of hollow, 300 ft. deep, course NE. Ascend.
40.02	Set a sandstone, 16x12x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A pinon, 16 ins. diam., bears S. 47° W., 41 lks. dist., marked $\frac{1}{4}$ S 4 B T. A pinon, 12 ins. diam., bears S. 30° E., 45 lks. dist., marked $\frac{1}{4}$ S 3 B T.
53.00	Top of spur projects NE. Descend.
71.00	Head of hollow, course E. Ascend.
80.02	The cor. of secs. 3-4-9 and 10. Land, mountainous.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.02 chs.

Sept. 14: At this cor., I set off $3^{\circ}23'N.$ on the decl. arc; and at 11h 56m a.m., l.m.t., observe the sun the meridian; the resulting lat. is $39^{\circ}43'N.$

From the cor. of secs. 2, 3, 34, and 35 on S.bdy. of Tp., heretofore described, I run
 $N.0^{\circ}03'E.$, bet. secs. 34 and 35.

Ascend along the west slope of ridge through scattering cedar and pinon timber.

21.50 Begin descent.

40.00 Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which

A pinon, 10 ins. diam., bears $N.32^{\circ}E.$, 38 lks. dist., marked $\frac{1}{4}$ S 35 B T.

A pinon, 5 ins. diam., bears $N.63^{\circ}W.$, 18 lks. dist., marked $\frac{1}{4}$ S 34 B T.

80.00 Set a sandstone, 16x14x6 ins., 11 ins. in the ground, for cor. of secs. 26-27-34 and 35, marked with 1 notch on the S. and 2 notches on the E. edge; from which

A pinon, 8 ins. diam., bears $N.80^{\circ}25'E.$, 43 lks. dist., marked T 12 S R 25 E S 26 B T.

A pinon, 6 ins. diam., bears $S.43^{\circ}30'E.$, 34 lks. dist., marked T 12 S R 25 E S 35 B T.

A pinon, 8 ins. diam., bears $N.21^{\circ}W.$, 29 lks. dist., marked T 12 S R 25 E S 27 B T.

A pinon, 6 ins. diam., bears $S.22^{\circ}40'W.$, 71 lks. dist., marked T 12 S R 25 E S 34 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS	
	w. on a random line bet. secs. 27 and 34.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect N. and S. line, 7 lks. N. of the cor. of secs. 27-28-33 and 34. Thence I run N. $89^{\circ}57' E.$, on a true line bet. secs. 27 and 34. Descend over rocky land through scattering cedar and pinon timber.
22.00	Bottom of hollow, 200 ft. deep, course NE. Ascend.
37.00	Top of spur projects NE. Descend.
40.05	Set a sandstone, 18x12x8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
63.00	Bottom of Camp. Gulch, 500 ft. deep, course NE. Begin abrupt ascent.
80.10	The cor. of secs. 26-27-34 and 35. Land, mountainous. Soil; rocky, 3rd rate. Timber cedar and pinon pine. Mountainous land on 80.10 chs.
	N. $0^{\circ}03' E.$, bet. secs. 26 and 27. Descend over rocky land; through scattering cedar and pinon pine. Bottom of hollow, 150 ft. deep, course SW. Ascend.
36.00	Top of spur projects W. Descend.
40.00	Set a sandstone, 20x10x5 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

- 49.00 Bottom of hollow, 100 ft. deep, course W.
Ascend.
66.00 Top of spur projects W.
Descend.
80.00 Set a sandstone, 20x8x5 ins., 15 ins. in the ground, for cor. of secs. 22-23-26 and 27, marked with 2 notches on the S and E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, pinon and cedar.
Mountainous land on 80.00 chs. Sept. 14, 1904.

Sept. 15: At 8h a.m., l.m.t., I set off $39^{\circ}45'N.$ on the lat. arc; $3^{\circ}04'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 22-23-26 and 27.

Thence I run

S. $89^{\circ}57'W.$ on a random line bet. secs. 22 and 27.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.04 Intersect N. and S. line, 9 lks. S. of the cor. of secs. 21-22-27 and 28.

Thence I run

S. $89^{\circ}59'E.$, on a true line

bet. secs. 22 and 27.

Descend over rocky land through scattering cedar and pinon timber.

10.00 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

Leave timber.

27.50 Top of ridge bears N. and S.

Descend.

40.02 Set a sandstone, 18x10x6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS:

- stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Pits impracticable.
- 68.00 Camp Gulch, 500 ft. deep, course N.
 Begin abrupt ascent.
- 80.04 The cor. of secs. 22-23-26 and 27.
 Land, mountainous.
 Soil; rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land on 80.04 chs.
-
- N. $0^{\circ}03' E.$, bet. secs. 22. and 23.
 Descend over rocky land, through scattering cedar and pinon timber.
- 27.00 Bottom of Camp Gulch, 500 ft. deep, course NE.
 Begin abrupt ascent.
- 34.00 Top of spur projects E.
 Begin abrupt descent.
- 39.50 Bottom of Camp Gulch, 500 ft. deep, course NW.
 Begin abrupt ascent.
- 40.00 Set a sandstone, 14x8x6 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
- 47.00 Top of spur projects NW.
 Begin abrupt descent.
- 51.00 Bottom of Camp Gulch, 500 ft. deep, course E.
 Ascend abruptly.
- 75.00 Top of ridge bears NE. and SW. From this point, U.S.L.M., No. 6, bears N. $51^{\circ}43'E.$ Descend.
- 80.00 Set a sandstone, 18x8x8 ins., 12 ins. in the ground, for cor. of secs. 14-15-22 and 23, marked with 3 notches on the S. and 2 notches on the E. edge; from which a pine, 12 ins. diam., bears N. $52^{\circ}E.$, 63 lks. dist., marked T 12 S R 25 E S 14 B T.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

A pinon, 8 ins. diam., bears S. 23° E., 32 lks. dist.,
marked T 12 S R 25 E S 23 B T.

A cedar, 8 ins. diam., bears S. 42° W., 36 lks. dist.,
marked T 12 S R 25 E S 22 B T.

A pinon, 6 ins. diam., bears N. 72° W., 12 lks. dist.,
marked T 12 S R 25 E S 15 B T.

Land, mountainous.

Soil; rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

N. 89° 59' W. on a random line bet. secs. 15 and 22.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.98 Intersect N. and S. line, 7 lks. N. of the cor. of secs.
15-16-21 and 22.

Thence I run

N. 89° 58' E., on a true line
bet. secs. 15 and 22.

Descend over rocky land through scattering cedar and
pinon timber.

3.00 Bottom of hollow, 200 ft. deep, course NE.

Ascend.

36.00 Top of ridge bears N. and S.

39.99 In bottom of hollow, 100 ft. deep, course N.

Set a sandstone, 16x12x4 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

A pinon, 8 ins. diam., bears N. 18° E., 1.48 chs. dist.,
marked $\frac{1}{4}$ S 15 B T.

A cedar, 12 ins. diam., bears S. 40° W., 60 lks. dist.,
marked $\frac{1}{4}$ S 22 B T..

45.15 Top of low spur projects N.

Ascend.

51.00 Head of hollow, course N.

Ascend.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

- 70.00 Top of ridge bears N. and S.
Descend.
75.50 Head of hollow, course N.
Ascend.
79.98 The cor. of secs. 14-15-22 and 23.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land on 79.98 chs.
-

N. 0° 03' E., bet. secs. 14 and 15.

Descend over rocky land through scattering cedar and pinon timber.

19.00 Bottom of hollow, 100. ft. deep, course NW.

Ascend.

36.73 On top of ridge bearing N. and SE.,

United States Location Monument No. 6, which is a pine post 6 ins. square, 4 ft. above ground,
marked and witnessed as described by the surveyor general,
bears S. 85° 14' E.

Thence along top of ridge.

40.00 Set a sandstone, 16x12x5 ins., 11 ins. in the ground, for

A. pinon, 8 ins. diam., bears N. 60° E., 37 lks. dist.,
marked $\frac{1}{4}$ S 14 B T.

A pinon, 8 ins. diam., bears N. 89° W., 33 lks. dist.,

marked $\frac{1}{4}$ S 15 B T. Leave top of ridge bearing NE. & S.

Begin abrupt descent.

64.00 Bottom of hollow, 300 ft. deep, course NE.

Ascend.

80.00 Set a sandstone, 20x8x6 ins., 15 ins. in the ground, for
cor. of secs. 10-11-14 and 15, marked with 4 notches on the
S. and 2 notches on the E. edge; from which

A pinon, 10 ins. diam., bears N. 44° E., 96 lks. dist.,
marked T 12 S R 25 E S 11 B T.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

A pinon, 8 ins. diam., bears S. 10° E., 50 lks. dist.,
marked T 12 S R 25 E S 14 B T.

A pinon, 10 ins. diam., bears S. 37° W., 45 lks. dist.,
marked T 12 S R 25 E S 15 B T.

A pinon, 8 ins. diam., bears N. 60° W., 58 lks. dist.,
marked T 12 S R 25 E S 10 B T.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

Sept. 15: At this cor., I set off $03^{\circ}00'$ N. on the decl. arc;
and at 11h 55m a.m., l.m.t., observe the sun on the merid-
ian; the resulting lat. is $39^{\circ}47'N$.

S. $89^{\circ}58'W$., on a random line bet. secs. 10 and 15.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.90 Intersect N. and S. line, 3 lks. N. of the cor. of secs.
9-10-15 and 16.

Thence I run

N. $89^{\circ}57'E$., on a true line
bet. secs. 10 and 15.

Ascend abruptly over rocky land through scattering cedar
and pinon timber.

2.00 Top of ridge bearing N. and S.; descend.

24.00 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

31.00 Top of low spur projects NE.

Descend.

39.95 Set a sandstone, 16x14x3 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

A cedar, 6 ins. diam., bears N. 29° E., 1.35 chs. dist.,
marked $\frac{1}{4}$ S 10 B T.

A cedar, 8 ins. diam., bears S. 58° E., 1.98 chs. dist.,
marked $\frac{1}{4}$ S 15 B T.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS	
41.00	Bottom of hollow, 100 ft. deep, course NE. Ascend.
48.25	Top of ridge bears NE. and SW. Descend.
57.50	Bottom of hollow, 250 ft. deep, course NE. Ascend.
72.25	Top of ridge bears NW. and SE. Descend.
79.90	The cor. of secs. 10-11-14 and 15. Land, mountainous. Soil; rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 79.90 chs.
0.53	N. 0° 03' E., bet. secs. 10 and 11. Ascend through scattering cedar and pinon timber. Gilsonite vein, $2\frac{1}{2}$ ft. wide, on Dragon Lode, bears NW. and SE.
9.00	Top of ridge bears NE. and SW. Descend.
40.00	Set a sandstone, 16x12x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A pinon, 4 ins. diam., bears N. 45° W., 5 lks. dist., marked $\frac{1}{4}$ S 10 B T. A cedar, 10 ins. diam., bears S. 63° 40' E., 41 lks. dist., marked $\frac{1}{4}$ S 11 B T.
63.00	Bottom of hollow, 300 ft. deep, course NE. Ascend.
80.00	Set a sandstone, 18x11x5 ins., 12 ins. in the ground, for cor. of secs. 2-3-10 and 11, marked with 5 notches on the S. and 2 notches on the E. edge; from which A pinon, 10 ins. diam., bears N. 51° E., 28 lks. dist., marked T 12 S R 25 E S 2 B T. A pinon, 11 ins. diam., bears S. 46° E., 60 lks. dist., marked T 12 S R 25 E S 11 B T. A pinon, 6 ins. diam., bears S. 71° W., 1.60 chs. dist.,

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

- marked T 12 S R 25 E S 10 B T.
 A pinon, 8 ins. diam., bears N. 33° W., 1.91 chs. dist.,
 marked T 12 S R 25 E S 3 B T.
 Land, mountainous.
 Soil; rocky, 3rd rate.
 Timber, pinon and cedar.
 Mountainous land on 80.00 chs.
-
- S. 89° 57' W. on a random line bet. secs. 3 and 10.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.80 Intersect N. and S. line, 3 lks. N. of the cor. of secs.
 3-4-9 and 10.
 Thence I run
 N. 89° 56' E., on a true line
 bet. secs. 3 and 10.
 Descend over rocky land through scattering cedar and
 pinon timber.
 3.00 Head of hollow, course NE.
 Ascend.
 14.75 Top of spur projects NE.
 Descend.
 20.00 Bottom of hollow, 100 ft. deep, course NE.
 Ascend.
 28.00 Top of ridge bears N. and SW.
 Descend.
 39.90 Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of
 stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Pits impracticable.
 56.25 Bottom of hollow, 250 ft. deep, course NE.
 Begin abrupt ascent.
 71.75 Top of spur projects NE.
 Descend.
 79.80 The cor. of secs. 2-3-10 and 11.

SUBDIVISIONS of T. 12 S., R. 25 E.

CHAINS

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 79.80 chs.

N. 0° 03' E., on a random line bet. secs. 2 and 3.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.99 Intersect N. bdy. of the Tp., 19 lks. E. of the cor. of secs. 2-3-34 and 35, heretofore described.

Thence I run

S. 0° 05' E., on a true line

bet. secs. 2 and 3.

Descend over rocky land through scattering cedar and pinon timber.

3.00 Bottom of hollow, 200 ft. deep, course NE.

Ascend.

8.50 Top of spur projects NW.

Descend.

17.00 Bottom of hollow, 200 ft. deep, course NW.

Begin abrupt ascent.

24.00 Top of spur projects E.

Descend.

33.00 Bottom of hollow, 200 ft. deep, course NE..

Ascend.

39.99 Set a sandstone, 16x11x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which

A pinon, 6 ins. diam., bears S. 38° 40' E., 23 lks. dist., marked $\frac{1}{4}$ S 2 B T.

A pinon, 10 ins. diam., bears S. 7° 45' W., 21 lks. dist., marked $\frac{1}{4}$ S 3 B T.

42.00 Top of spur projects W.

Descend.

53.00 Bottom of hollow, 200 ft. deep, course NW.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS	
	Ascend.
58.00	Top of spur projects NE.
	Descend..
79.99	The cor.of secs.2-3-10 and 11. Land, mountainous. Soil; rocky, 3rd rate. Timber, cedar and pinon. Mountainous land on 79.99 chs.
	Sept. 15, 1904.
	Sept. 16: At 8h a.m., l.m.t., I set off $39^{\circ}43'N.$ on the lat. arc; $2^{\circ}41'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1-2-35 and 36, heretofore described on the S.bdy. of the Tp.
	Thence I run
	$N.0^{\circ}03'E.$, bet. secs. 35 and 36.
	Ascend over rocky land through scattering cedar and pinon timber.
21.00	Descend.
28.00	Bottom of hollow, 100 ft. deep, course NW.
	Ascend.
34.00	Top of spur projects NW.
	Descend.
40.00	Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which A pinon, 10 ins. diam., bears $N.32^{\circ}E.$, 38. lks. dist., marked $\frac{1}{4} S 36 B T.$ A pinon, 5 ins. diam., bears $N.63^{\circ}W.$, 18. lks. dist., marked $\frac{1}{4} S 35 B T.$
72.50	Gulch drains NE.; ascend.
80.00	Set a sandstone, 16x14x6 ins., 11 ins. in the ground, for cor.of secs. 25-26-35 and 36, marked with 1 notch on the S. and E. edge; from which

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

A pinon, 8 ins. diam., bears N. $80^{\circ}25' E.$, 43 lks. dist., marked T 12 S R 25 E S 25 B T.

A pinon, 6 ins. diam., bears S. $43^{\circ}30' E.$, 34 lks. dist., marked T 12 S R 25 E S 36 B T.

A pinon, 6 ins. diam., bears S. $22^{\circ}40' W.$, 71 lks. dist., marked T 12 S R 25 E S 35 B T.

A pinon, 8 ins. diam., bears N. $21^{\circ}10' W.$, 29 lks. dist., marked T 12 S R 25 E S 26 B T.

Land, mountainous.

Soil; rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

W. on a random line bet. secs. 26 and 35.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.20 Intersect N. end S. line, 3 lks. N. of the cor. of secs. 26-27-34 and 35.

Thence I run

N. $89^{\circ}59' E.$ on a true line

bet. secs. 26 and 35.

Ascend over rocky land through scattering cedar and pinon timber.

11.00 Top of ridge bears NE. and SW.

Descend.

17.00 Bottom of hollow, 100 ft. deep, course SE.

Ascend.

32.00 Top of spur projects SE.

Descend.

40.10 Set a sandstone, 16x12x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

71.00 Bottom of hollow, 300 ft. deep, course NE.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

Ascend.

76.00 Top of ridge bears N. and SW.

Descend.

80.20 The cor. of secs. 25-26-35 and 36.

Land, mountainous.

Soil; rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.20 chs.

Knowing the line bet. secs. 25 and 36, intersects the Utah Colorado Bdy. line, I run

East on a true line bet. secs. 25 and 36.

Descend over rocky land through scattering cedar and pinon timber.

8.00 Bottom of hollow, 100 ft. deep, course NE.

Ascend.

16.00 Begin abrupt ascent over sandstone ledges and boulders.

31.78 Set a sandstone, 18x8x5 ins., 12 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked WC₄ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

40.00 Point for $\frac{1}{4}$ sec. cor., falls on perpendicular face of sandstone ledge and cannot be set.

46.75 Top of ridge bears NE. and SW.

Descend.

79.25 Bottom of hollow, 200 ft. deep, course NE.

Ascend.

104.50 Top of spur projects NE.

Descend.

108.40 Intersect Utah-Colorado Bdy. line, 5.07 chs. S. 0° 08' W. of the 189 Mile Cor., heretofore described.

Set a sandstone, 16x14x5 ins., 11 ins. in the ground, for closing cor. of secs. 25 and 36, marked

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

C C U on W.,

C on E., with 1 groove on the S. and 5 grooves on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Pits impracticable.

Land, mountainous.

Soil; rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 108.40 chs.

Sept. 16: At this cor., I set off $2^{\circ}36'N.$ on the decl. arc; and at 11h 55m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is $39^{\circ}44'N.$

N. $0^{\circ}03'E.$, bet. secs. 25 and 26.

Ascend abruptly over rocky land.

17.00 Top of spur projects SE.

Descend.

34.00 Bottom of hollow, 200 ft. deep, course SE.

Ascend.

40.00 Set a sandstone, 20x8x5 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

67.00 Top of ridge bears E. and W.

Descend.

80.00 Set a sandstone, 24x8x8 ins., 18 ins. in the ground, for cor. of secs. 23-24-25 and 26, marked with 2 notches on the S. and 1 notch on the E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil; rocky, 3rd rate.

No timber.

Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

- S. 89° 59' W. on a random line bet. secs. 23 and 26.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect N. and S. line, 9 lks. S. of the cor. of secs. 22-23-26 and 27.
Thence I run
S. 89° 57' E., on a true line
bet. secs. 23. and 26.
Ascend over rocky land through scattering cedar and pinon timber..
- 8.00 Top of ridge bears NE. and SW.
Descend.
- 22.50 Bottom of hollow, 200 ft. deep, course N.
Ascend .
- 35.00 Top of spur projects N.
Descend.
- 37.30 Begin abrupt and precipitous descent over sandstone ledges and boulders.
Set a sandstone, 24x12x10 ins., 18 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked W C $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
- 40.05 Point for $\frac{1}{4}$ sec. cor. falls on impassable ledges; cannot set.
64.00 Bottom of hollow, 300 ft. deep, course NE.
Begin abrupt ascent.
- 80.10 The cor. of secs. 23-24-25 and 26.
Land, mountainous.
Soil; rocky, 3rd rate.
Timber, none .
Mountainous land on 80.10 chs.
-
- Knowing the line bet. secs. 24 and 25 intersects Utah-Colo-
rado Bdy. line, I run
East on a true line bet. secs. 24 and 25.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

- Ascend over rocky land through scattering cedar and pinon timber.
- 6.50 Top of ridge bears N. and S.
Descend.
- 14.00 Bottom of hollow, 100 ft. deep, course NE.
Ascend.
- 21.50 Top of spur projects NE.
Descend. Leave timber.
- 40.00 Set a sandstone, 18x10x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
- 51.00 Bottom of hollow, 250 ft. deep, course NE.
Ascend.
- 65.00 Descend.
- 81.50 Enter bottom of Evacuation Canon, bearing NW. and SE.
Descend gradually through dense artemisia.
- 90.05 Bottom of Evacuation Canon, 500 ft. deep, course NW.
100.30 wagon Road from Mack to Vernal bears NW. and SW.
Begin gradual ascent over rolling land.
From this point a cabin, 12x24 ft., bears N., 5.00 chs. dist.
- 108.40 Intersect Utah-Colorado Bdy. line, 14.00 chs. S. 0°08' W.
of the 190 Mile Cor., heretofore described.
Set a sandstone, 18x14x4 ins., 12 ins. in the ground, for closing cor. of secs. 24 and 25, marked
C C U on W.,
C on E., with 2 grooves on the S. and 4 grooves on the N. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land or dense undergrowth on 108.40 chs.

Sept. 16, 1904.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

Sept. 17: At 8h a.m., l.m.t., I set off $39^{\circ}45'N.$ on the 1st. arc; $2^{\circ}18'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 23-24-25 and 26.

Thence I run

$N.0^{\circ}03'E.$, bet. secs. 23 and 24.

Descend over rocky land through scattering cedar and pinon timber.

33.00 Bottom of hollow, 300 ft. deep, course NE.

Ascend.

40.00 Set a sandstone, 16x9x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

52.00 Begin more abrupt ascent.

80.00 Set a sandstone, 20x8x8 ins., 15 ins. in the ground, for cor. of secs. 13-14-23 and 24, marked with 3 notches on the S. and 1 notch on the E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil: rocky, 3rd rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

$N.89^{\circ}57'W.$, on a random line bet. secs. 14 and 23.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.24 Intersect N. and S. line, 3 lks. S. of the cor. of secs.

14, 15, 22, and 23,

Thence I run

$S.89^{\circ}56'E.$, on a true line

bet. secs. 14 and 23.

Ascend over rocky land through scattering cedar and pinon timber.

7.50 Top of ridge bears NE. and SW.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS	
	From this point, Dragon Mine Office and Power House, belonging to the St. Louis Gilsonite Co., bears N.43°10'E.
	Descend.
16.00	Camp Gulch, 400 ft. deep, course NE.
	Ascend.
32.00	Top of ridge bears SW. and E.
	Thence along top of ridge.
40.13	Set a sandstone, 20x12x8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face; from which
	A pinon, 6 ins. diam., bears N.10°E., 36 lks. dist., marked $\frac{1}{4}$ S 14 B T.
	A pinon, 8 ins. diam., bears south, 54 lks. dist., marked $\frac{1}{4}$ S 23 B T.
	From the $\frac{1}{4}$ sec.cor., Power House bears N.6°10'E.
	Mine Office bears N.4°05'W.
48.00	Leave top of ridge bearing W. and NE.
	Descend.
80.24	The cor. of secs. 13-14-23 and 24.
	Land, mountainous.
	Soil: rocky, 3rd rate.
	Timber, cedar and pinon.
	Mountainous land on 80.24 chs.

	Knowing the line bet. secs. 13 and 24 intersects Utah-Colorado Bdy. line, I run
	East on a true line, bet. secs. 13 and 24.
	Ascend over rocky land through scattering cedar and pinon timber.
10.60	Gilsonite vein, $2\frac{1}{2}$ ft. wide, on Dragon Lode, bears NW. and SE.
20.25	Bottom of hollow, 200 ft. deep, course NE.
	Ascend abruptly.
40.00	Set a sandstone, 16x14x4 ins., 11 ins. in the ground, for

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

- $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face; from which
 A cedar, 10 ins. diam., bears S. $24^{\circ}30' E.$, 38 lks. dist.,
 marked $\frac{1}{4}$ S. $24^{\circ} B.T.$
- A cedar, 9 ins. diam., bears N. $22^{\circ}20' E.$, 54 lks. dist.,
 marked $\frac{1}{4}$ S. $13^{\circ} B.T.$
- 43.00 Top of spur projects NE.
 Descend.
- 51.00 Enter bottom of canon, bearing NW. and SE.
 Descend over rolling land through dense artemisia.
- 56.77 Telephone line from Mack to Dragon bears NW. and SE.
- 68.00 Wagon road from Mack to Vernal bears NW. and SE.
- 69.50 Bottom of Evacuation Canon, 500 ft. deep, course NW.
 Ascend gradually.
- 71.00 Leave bottom of canon, bearing NW. and SE. Ascend.
- 72.00 Top of spur projects SW.
 Descend.
- 108.18 Intersect Utah Colorado Bdy. line, 77.42 chs., S. $0^{\circ}04' W.$
 of the 191 3-4 Mile Cor., heretofore described.
 Set a sandstone, 18x14x5 ins., 12 ins. in the ground, for
 closing cor. of secs. 13 and 24, marked
 C C U on W.
 C on E., with 3 grooves on the N. and S. faces; from
 which
 A pinon, 8 ins. diam., bears N. $29^{\circ}30' W.$, 1.19 chs. dist.,
 marked T 12 S R 25 E S 13 B T.
 A pinon, 12 ins. diam., bears S. $73^{\circ}10' W.$, 2.32 chs. dist.
 marked T 12 S R 25 E S 24 B T.
 Sept. 17: At this cor., I set off $2^{\circ}15' N.$ on the decl. arc;
 and at 11h 55m a.m., l.m.t., observe the sun on the
 meridian; the resulting lat. is $39^{\circ}47' N.$
 Land, mountainous.
 Soil: rocky, 3rd rate.
 Timber, cedar and pinon.
 Mountainous land or dense undergrowth on 108.18 chs.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

N. 0° 03' E., bet. secs. 13 and 14.

- Ascend over rocky land through scattering cedar and pinon timber.
- 8.40 Gilsonite vein, $2\frac{1}{2}$ ft. wide, on Dragon Lode, bears NW. and SE.
- 9.00 Top of spur projects NE.
- Descend.
- 37.50 Bottom of hollow, 300 ft. deep, course NE.
- Ascend.
- 40.00 Set a sandstone, 18x8x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
- A pinon, 8 ins. diam., bears S. 55° E., 22 lks. dist., marked $\frac{1}{4}$ S 13 B T.
 - A pinon, 8 ins. diam., bears N. 80° W., 30 lks. dist., marked $\frac{1}{4}$ S 14 B T.
- 57.35 Top of spur projects E.
- Descend.
- 75.00 Bottom of hollow, 200 ft. deep, course E.
- Ascend.
- 80.00 Set a sandstone, 18x10x8 ins., 12 ins. in the ground, for cor. of secs. 11-12-13 and 14, marked with 4 notches on the S. and 1 notch on the E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- Pits impracticable.
- Land, mountainous.
- Soil: rocky, 3rd rate.
- Timber, cedar and pinon.
- Mountainous land on 80.00 chs.
-
- N. 89° 56' W., on a random line bet. secs. 11 and 14.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.40 Intersect N. and S. line, 30 lks. S. of the cor. of secs. 10-11-14 and 15.
- Thence I run
- S. 89° 43' E., on a true line

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

- bet. secs. 11 and 14.
- Descend over rocky land through scattering cedar & pinon.
- 0.56 Gilsonite vein, $2\frac{1}{2}$ ft. wide, on Dragon Lode bears NW. and SW.
- 14.80 Bottom of hollow, 250 ft. deep, course NE.
- Ascend.
- 28.00 Top of ridge bears NE. and SW.
- Descend.
- 40.00 Set a sandstone, 18x8x8 ins., 12 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of
 stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Pit impracticable.
- 57.00 Enter bottom of gulch, bearing NE. and SW.
- Descend over rolling land through dense artemisia.
- 61.00 Telephone line from Dragon to Mack bears NE. and SW.
- 61.30 Dragon road from Mack to Dragon bears NE. and SW.
- 62.50 Bottom of Camp Gulch, 400 ft. deep, course NE.
- Begin gradual ascent.
- 66.00 Leave bottom of gulch, bearing NE. and SW.
- Begin abrupt ascent. Leave undergrowth.
- 71.00 Top of spur projects NE.
- Begin abrupt descent.
- 80.40 The cor. of secr. 11-12-13 and 14.
- Land, mountainous.
- Soil: rocky, 3rd rate.
- Timber, cedar and pinon.
- Mountainous land or dense undergrowth on 80.40 obs.
-
- Knowing the line bet. secs. 12 and 13 intersects the
 Utah Colorado Bdy. line, I run
- East on a true line bet. secs. 12 and 13.
- Descend over rocky land through scattering cedar and
 pinon timber.
- 16.00 Enter bottom of canon, bearing N. and S.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS	
	Descend gradually through dense artemisia.
20.50	Wagon road from Mack to Vernal bears N. and S.
23.00	Bottom of Evacuation Canon, 500 ft. deep, course N.
	Begin gradual ascent.
25.00	Telephone line from Dragon to Vernal bears NW. and SE.
30.00	Leave bottom of canon, bearing NW. and SE. Ascend abruptly.
36.00	Top of spur projects NW.
	Descend.
39.90	Bottom of hollow, 300 ft. deep, course NW.
	Ascend.
40.00	Set a sandstone, 15x10x5 ins., 10 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
47.00	Begin more abrupt ascent.
106.00	Top of ridge bears NW. and SE.
	Descend.
108.07	Intersect Colorado Utah Bdy. line, 2.21 chs. N. $0^{\circ}04' E.$ of the 191 3-4 Mile Cor., heretofore described. Set a sandstone, 16x14x3 ins., 11 ins. in the ground, for closing cor. of secs. 12 and 13, marked C C U on the W., C on the E., with 2 grooves on the N. and 4 grooves on the S. face; from which A pinon, 9 ins. diam., bears N. $33^{\circ}10' W.$, 63 lks. dist., marked T 12 S R 25 E S 12 B T. A pinon, 8 ins. diam., bears S. $54^{\circ}20' W.$, 56 lks. dist., marked T 12 S R 25 E S 13 B T.
	Land, mountainous.
	Soil: rocky, 3rd rate.
	Timber, cedar and pinon.
	Mountainous land or dense undergrowth on 108.07 chs.
	Sept. 17, 1904.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

- Sept. 18: At 8h a.m., l.m.t., I set off $39^{\circ}47'N.$ on the lat. arc; $1^{\circ}55'N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 11-12-13 and 14. Thence I run
 $N.0^{\circ}03'E.$, bet. secs. 11 and 12.
- Ascend over rocky land through scattering cedar and pinon timber.
- 4.50 Top of spur projects NE.
 Descend.
- 14.00 Foot of descent bears NE. and SW.
 Enter bottom of gulch, over level land through dense artemisia. Leave timber.
- 18.00 Bottom of Camp Gulch, 500 ft. deep, course E.
- 18.50 Telephone line from Mack to Dragon bears E. and W.
- 19.20 Wagon road from Mack to Dragon bears E. and W.
- 23.00 Foot of abrupt ascent bears E. and W.
 Leave bottom of gulch.
 Begin abrupt ascent.
 Leave dense undergrowth and enter scattering cedar and pinon timber.
- 34.00 Top of spur projects E.
 Descend.
- 40.00 Set a sandstone, 18x9x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
 A pinon, 8 ins. diam., bears $S.35^{\circ}E.$, 63 lks. dist.,
 marked $\frac{1}{4}$ S 12 B T.
 A pinon, 10 ins. diam., bears $S.62^{\circ}W.$, 45 lks. dist.,
 marked $\frac{1}{4}$ S 11 B T.
- 42.00 Bottom of hollow, 100 ft. deep, course E.
 Ascend.
- 60.20 Top of spur projects E.
 Begin abrupt descent.
- 79.50 Foot of abrupt descent bears NW. and SE.
 Enter bottom of Evacuation Canon, over level land.

SUBDIVISIONS OF T. 12 S., R. 26 E.

CHAINS	
	Leave timber and enter dense artemisia.
80.00	Set a sandstone, 20x10x8 ins., 15 ins. in the ground, for cor. of secs. 1-2-11 and 12, marked with 5 notches on the S. and 1 notch on the E. edge; and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	Land mountainous or level.
	Soil: rocky and sandy 3rd rate.
	Timber, pinon and cedar.
	Mountainous land or dense undergrowth on 80.00 chs.
	<hr/>
	N. 89° 43' E., on a random line bet. secs. 2 and 11.
40.00	Set temp. + sec. cor.
20.25	Intersect N. and S. line, 44 lks. N. of the cor. of secs. 2-3-10 and 11.
	Thence I run,
	N. 89° 58' E., on a true line
	bet. secs. 2 and 11.
	Descend over rocky land through scattering cedar and pinon timber.
2.50	Bottom of hollow, 100 ft. deep, course N.
	Ascend.
19.00	Top of ridge bears N. and S.
	Descend.
27.00	Bottom of hollow, 100 ft. deep, course N.
	Ancend.
40.12	Set a sandstone, 18x8x8 ins., 12 ins. in the ground, for + nec. cor., marked + on N. face; from which
	A cedar, 8 ins. diam., bears N. 10° W., 45 lks. dist., marked + S 2 B T.
	A pinon, 8 ins. diam., bears S. 50° W., 58 lks. dist., marked + S 11 B T.
42.00	Top of spur projects W.
	Descend.

SUBDIVISIONS OF T.12 S., R.25 E.

CHAINS

57.00 Bottom of hollow, 200 ft. deep, course NE.

Begin abrupt ascent.

68.00 Top of spur projects NE.

Descend.

80.25 The cor. of secs. 1-2-11 and 12.

Land, mountainous.

Soil; rocky, 3rd rate.

Timber cedar and pinon.

Mountainous land on 80.25 chs.

Knowing the line bet. secs. 1 and 12 intersects the Utah-Colorado Boundary, I run:

East on a true line bet. secs. 1 and 12.

Over level land through dense artemisia, along the bottom of Evacuation Canon.

3.00 Wagon Road from Vernal to Mack bears NW. and SE.

8.00 Bottom of Evacuation Canon 500 ft. deep, course NW.

12.25 Foot of abrupt ascent bears NW. and SE.

Leave bottom of canon and dense undergrowth.

Enter scattering cedar and pinon timber.

25.00 Top of spur projects SW.

Descend.

27.00 Head of hollow, course S.

Ascend.

30.00 Top of ridge bears NW. and SE.

Descend.

40.00 Set a sandstone, 20x10x8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

69.00 Bottom of hollow, 150 ft. deep, course NW.

Ascend.

96.50 Top of spur projects NW.

SUBDIVISIONS OF T. 12 S., R. 25 E.

CHAINS

- 107.98 Intersect Utah-Colorado Bdy. Line, 15.91 chs., S. $0^{\circ}04'W.$
of the 193 Mile Cor., heretofore described.
Set a sandstone, 16x12x4 ins., 11 ins. in the ground, for
closing cor. of secs. 1 and 12, marked
C C U on the W.,
C on the E. with 1 groove on the N. and 5 grooves
on the S. faces; and raise a mound of stone, 2 ft. base,
 $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil: rocky, 3rd rate.
Timber, cedar and pinon.
Mountainous land or dense undergrowth on 107.98 chs.
-
- N. $0^{\circ}03'E.$ on a random line bet. secs. 1 and 2.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.06 Intersect N. bdy. of the Tp., 14 lks. E. of the cor. of secs.
1-2-35 and 36, heretofore described.
Thence I run
S. $0^{\circ}03'E.$, on a true line
bet. secs. 1 and 2.
Ascend over rocky land through scattering cedar and
pinon timber.
5.00 Top of spur projects SW.
Descend.
13.50 Head of hollow, course SW.
Ascend.
19.25 Top of spur projects SW.
Descend abruptly.
34.00 Bottom of abrupt descent bears NW. and SE.
Descend gradually.
40.06 Set a sandstone, 15x10x5 ins., 10 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of

SUBDIVISIONS OF T.12 S.R.25 E.

Chains stone 2 ft. base $1\frac{1}{2}$ ft. high W.of cor.
 Pits impracticable.
 42.00 Missouri Creek Canon, 500 ft. deep, course NW.
 Begin abrupt ascent.
 56.00 Top of spur projects NW.
 Begin abrupt descent.
 60.00 Foot of abrupt descent bears NW. and SE.
 Enter bottom of canon.
 Thence over level land, through dense artemisia.
 Leave timber.
 68.00 Bottom of Evacuation Canon, 500 ft. deep, course NW.
 75.00 Wagon road from Mack to Dragon bears NW. and SE.
 80.06 The cor. of secs. 1, 2, 11, and 12.
 Land mountainous.
 Soil rocky; 3rd rate.
 Timber cedar and pinon.
 Mountainous land or dense undergrowth on 80.06 chs.

Sept. 18, 1904.

GENERAL DESCRIPTION.

This township is mountainous throughout; the eastern portion broken by deep canons and hollows, draining into Evacuation Canon, which drains NW. into the White River.

Sandstone is the predominating formation, with some outcroppings of limestone.

There is no water in this township. There are no settlers in this township, it being unfit for agricultural or grazing on account of the scarcity of water.

The only mineral found in this township is gilsonite, a vein of which averaging 3 ft. in width on the Dragon Lode, Lode, passes through secs. 4, 5, 9, 10, 11, 13, 14, and 24.

I return as mineral land, lot 1 sec. 5; lots 4, 5, 6, 7, 8, 9, and 10, sec. 4; lots 1 and 2, sec. 9; lots 1, 2, 3, 4, 5,

SURVEY STATIONS OF T.12 S.R.25 E.

6.; and 7; sec.10; lot 1; sec.15; lots 132,3,4,5,6,7,
and 8, sec.14; lots 10 and 11, sec.13; and lot 4, sec.
24.; and lot 1, sec.11.

Alfredo R. Talavera

U.S. Deputy Surveyor.

Volume

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R0326

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alfredo R Palamantes

, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivisions of T12, R25E of the Salt Lake Base and Meridian, Utah; showing the respective capacities in which they acted:

Julius H White, Chainman.

Egbert White, Chainman.

Howard M Hodge, Moundman.

William Pearson, Axman.

William L White, Axman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

Alfredo R Palamantes

, United States Deputy Surveyor, in surveying all those parts or portions of the

Subdivisions of T12, R25E.

Pase and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Julius H White, Chainman.

Egbert White, Chainman.

Howard M Hodge, Moundman.

Moundman.

William Pearson, Axman.

Axman.

William L White, Flagman.

Subscribed and sworn to before me this 18th

day of September, 1894,

800000
800000
800000

E. T. Garber
Notary Public

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alfredo R. Talamantes, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from United States Surveyor General for Utah, bearing date of 17 day of April 1904, 189, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of Subdivisions off 12 S. R. 25 E.

Salt Lake
Base and meridian, in the State of Utah, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alfredo R. Talamantes
United States Deputy Surveyor

Subscribed by said Alfredo R. Talamantes, and sworn to before me this 25th day of November, 1904,



Edward H. Anderson
U.S. Deputy Surveyor General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, May 27, 1904.

The foregoing field notes of the survey of the Subdivisional lines of Township No. 12 South, Range No. 25 East of the Salt Lake Base and Meridian, Utah,

executed by Alfredo R. Talamantes and Harvey D. Heist, U.S. Deputy Surveyors, under their contract No. 285, dated April 12, 1904, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in this office, has been correctly copied from the original notes on file in this office.

United States Surveyor General